



SEQUENCE LISTING

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<110> George-Hyslop, Peter
Rommens, Johanna
Fraser, Paul

<120> GENETIC SEQUENCES AND PROTEINS RELATED TO ALZHEIMER'S DISEASE

<130> 1034/1F808US7

<140> US 09/689,159

<141> 2000-10-12

<150> US 08/509,359

<151> 1995-07-31

<160> 183

<170> PatentIn version 3.0

<210> 1

<211> 2791

<212> DNA

<213> Homo sapiens

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<221> misc_feature

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Leu Ile Tyr Thr Pro Phe Thr Glu Asp Thr Glu Thr Val Gly Gln Arg			
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Ala Leu His Ser Ile Leu Asn Ala Ala Ile Met Ile Ser Val Ile Val			
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Val Met Thr Ile Leu Leu Val Val Leu Tyr Lys Tyr Arg Cys Tyr Lys			
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Phe Ser Phe Ile Tyr Leu Gly Glu Val Phe Lys Thr Tyr Asn Val Ala			
180		185	190
Val Asp Tyr Ile Thr Val Ala Leu Leu Ile Trp Asn Leu Gly Val Val			
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Gly Met Ile Ser Ile His Trp Lys Gly Pro Leu Arg Leu Gln Gln Ala			
210		215	220
Tyr Leu Ile Met Ile Ser Ala Leu Met Ala Leu Val Phe Ile Lys Tyr			
225		230	235
240			
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245		250	255
Asp Leu Val Ala Val Leu Cys Pro Lys Gly Pro Leu Arg Met Leu Val			
260		265	270
Glu Thr Ala Gln Glu Arg Asn Glu Thr Leu Phe Pro Ala Leu Ile Tyr			
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Ser Ser Thr Met Val Trp Leu Val Asn Met Ala Glu Gly Asp Pro Glu			
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Ala Gln Arg Arg Val Ser Lys Asn Ser Lys Tyr Asn Ala Glu Ser Thr			
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Ser Thr Pro Glu Ser Arg Ala Ala Val Gln Glu Leu Ser Ser Ser Ile
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Leu Ala Gly Glu Asp Pro Glu Glu Arg Gly Val Lys Leu Gly Leu Gly
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Asp Phe Ile Phe Tyr Ser Val Leu Val Gly Lys Ala Ser Ala Thr Ala
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Ser Gly Asp Trp Asn Thr Thr Ile Ala Cys Phe Val Ala Ile Leu Ile
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Gly Leu Cys Leu Thr Leu Leu Leu Ala Ile Phe Lys Lys Ala Leu
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Pro Ala Leu Pro Ile Ser Ile Thr Phe Gly Leu Val Phe Tyr Phe Ala
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Phe Tyr Ile
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35 40 45

Pro Ile Ser Asn Gly Arg Pro Gln Ser Asn Ser Arg Gln Val Val Glu
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Gln Asp Glu Glu Glu Asp Glu Glu Leu Thr Leu Lys Tyr Gly Ala Lys
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His Val Ile Met Leu Phe Val Pro Val Thr Leu Cys Met Val Val Val
85 90 95

Val Ala Thr Ile Lys Ser Val Ser Phe Tyr Thr Arg Lys Asp Gly Gln
100 105 110

Leu Ile Tyr Thr Pro Phe Thr Glu Asp Thr Glu Thr Val Gly Gln Arg
115 120 125

Ala Leu His Ser Ile Leu Asn Ala Ala Ile Met Ile Ser Val Ile Val
130 135 140

Ile Met Thr Ile Leu Leu Val Val Leu Tyr Lys Tyr Arg Cys Tyr Lys
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 Phe Ser Phe Ile Tyr Leu Gly Glu Val Phe Lys Thr Tyr Asn Val Xaa
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 Val Asp Tyr Val Thr Val Ala Leu Leu Ile Trp Asn Trp Gly Val Val
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 Gly Met Ile Ala Ile His Trp Lys Gly Pro Leu Arg Leu Gln Gln Ala
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 Tyr Leu Ile Met Ile Ser Ala Leu Met Ala Leu Val Phe Ile Lys Tyr
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 Leu Pro Glu Trp Thr Ala Trp Leu Ile Leu Ala Val Ile Ser Val Tyr
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 Asp Leu Val Ala Val Leu Cys Pro Lys Gly Pro Leu Arg Met Leu Val
 260 265 270
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 Ala Gln Arg Arg Val Pro Lys Asn Pro Lys Tyr Asn Thr Gln Arg Ala
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 Glu Arg Glu Thr Gln Asp Ser Gly Ser Gly Asn Asp Asp Gly Gly Phe
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<223> where n may be either a or g or c or t/u, unknown or other

<400> 8
gctcatcatg cttcacgggg gaggctgtgc ggaaagaatg ctcccacaca gnataaagaa 60
tgctcccgca caggatagag aatgcccccg cacagcatag agaagcccc gcacagcata 120
gagaatgccc ccncacagca tagagaagcc cccgcacagc atagagaatg ctcttcacct 180
ctgggttttt aaccagccaa actaaaatca cagaggscma cacatcattt aagatagaaaa 240
tttctgtatc ttttaattty tttcmaagta gtttactta tttcagatt ctatttcttt 300
actagaatta agggataaaa taacaatgtg tgcataatga accctatgaa acmaacmmaa 360
gctagggttt tttcatagst cttcttccag attgaatgaa cgtctgttct aaaatttaac 420
cccccaggga aatattcagt taactatgtt aaaaacccag acttgtgatt gagtttgcc 480
tgaaaatgct ttcataattha tgtgtgaatg tgtgtc 516

<210> 9
<211> 1726
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(1726)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 9	
ggatccctcc cctttttaga ccatacaagg taacttccgg acgttgccat ggcatctgta	60
aactgtcatg gtgttggcgg ggagtgtctt ttagcatgct aatgtattat aattagcgta	120
tagtgagcag tgaggataac cagaggtcac tctcctcacc atcttggttt tggtgggttt	180
tggccagctt ctttattgca accagttta tcagcaagat ctatgagc tgtatcttgt	240
gctgacttcc tatctcatcc cgnaactaag agtacctaac ctccgtcaaa ttgmagncca	300
gnaggtcttg gncttatttn acccagcccc tattcaarat agagtnytc ttggncaaaa	360
cggcyctgac acaaggattt taaagtctta ttaattaagg taagatagkt cttgsatat	420
gtggctgaa atcacagaaa gctgaatttg gaaaaaggtg ctggasctg cagccagtaa	480
acaagtttc atgcaggtgt cagtattta ggtacatctc aaaggataag tacaattgtg	540
tatgttggga tgaacagaga gaatggagca anccaagacc caggtaaaag agaggacctg	600
aatgccttca gtgaacaatg atagataatc tagacttttta aactgcatac ttccgttaca	660
ttgtttttc ttgcttcagg ttttagaac tcatagtgac gggctgttg ttaatcccag	720
gtctaaccgt taccttgatt ctgctgagaa tctgatttac tgaaaatgtt tttcttgc	780
ttatagaatg acaatagaga acggcaggag cacaacgaca gacggagcct tggccaccct	840
ganccattat ctaatggacg acccagggtt actccggca ggtgggtgan caagatgagg	900
aagaagatga gganctgaca ttgaaatatg ncgscaagca tgtgatcatg ctcttgkcc	960
ctgtgactct ctgcatggtg gtggctgtgg ntaccattaa gtcagtcagc ttttataccc	1020
ggaaggatgg gcagctgtac gtatgagttt kgttttatta ttctcaaasc cagtgtggct	1080
tttctttaca gcatgtcatc atcaccttga aggcctctnc attgaagggg catgacttag	1140
ctggagagcc catcctctgt gatggtcagg agcagtttag agancgaggg gttattactt	1200
catgttttaa gtggagaaaa ggaacactgc agaagtatgt ttccgtatg gtattactgg	1260
atagggctga agttatgctg aattgaacac ataaattctt ttccacactca gggncattgg	1320
gcggccatttgc ntcttctgcc tagaatattc tttcccttnc tnacttkggn ggattaaatt	1380

cctgtcatcc	ccctcctttt	ggtgttatat	ataaaagtntt	ggtgccgcaa	aagaagtagc	1440
actcgaatat	aaaattttcc	ttttaattct	cagcaaggna	agttacttct	atatagaagg	1500
gtgcacccnt	acagatggaa	caatggcaag	cgcacatttg	ggacaaggga	ggggaaaggg	1560
ttcttatccc	tgacacacgt	ggtcccnngct	gntgtgtntc	nccccactg	antagggtta	1620
gactggacag	gcttaaacta	attccaattg	gntaatttaa	agagaatnat	ggggtaatg	1680
cttgggagg	agtcaaggaa	gagnaggtag	naggttaactt	gaatga		1726

<210> 10
 <211> 1883
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1883)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 10	cncgtataaa	agaccaacat	tgccancnac	aaccacaggc	aagatcttct	cctaccttcc	60
	cccnnngtgt	aataccaagt	attcnccaat	ttgtgataaa	ctttcattgg	aaagtgacca	120
	ccctccttgg	ttaatacatt	gtctgtgcct	gcttcacac	tacagtagca	cagttgagtg	180
	tttgccttgg	agaccatatg	accatagag	ctaaaaatat	tcagtctggc	tttttacaga	240
	gatgtttctg	actttgttaa	tagaaaatca	acccaactgg	tttaaataat	gcacatactt	300
	tctctctcat	agagtagtgc	agaggtagnnc	agtccagatt	agtasggtgg	cttcacgttc	360
	atccaaggac	tcaatctcct	tctttcttct	ttagcttcta	acctctagct	tacttcaggg	420
	tccaggctgg	agccctascc	ttcatttctg	acagtaggaa	ggagtagggg	agaaaagaac	480
	ataggacatg	tcagcagaat	tctctcctta	gaagttccat	acacaacaca	tctccctaga	540
	agtcattgcc	cttacttgtt	ctcatagcca	tcctaaatat	aaggagtc	gaagtaaagt	600
	ctkkntggct	ggaaatattg	gcacctggaa	taaaaatgtt	tttctgtgaa	tgagaaacaa	660
	gggaaagatg	gatatgtgac	attatcttaa	gacaactcca	gttgcaatta	ctctgcagat	720

gagaggcaact aattataaagc catattacct ttcttctgac aaccacttgt cagccncgt	780
ggtttctgtg gcagaatctg gttcyatamc aagttcctaa taanctgtas ccnaaaaaat	840
ttgatgaggt attataatta tttcaatata aagcacccac tagatggagc cagtgtctgc	900
ttcacatgtt aagtccctct ttccatatgt tagacattt cttgaagca atttttagagt	960
gtagctgttt ttctcaggtt aaaaattctt agctaggatt ggtgagttgg ggaaaagtga	1020
cttataagat ncgaattgaa ttaagaaaaa gaaaattctg tggtggaggt ggtaatgtgg	1080
ktggtgatct ycattaacac tganctaggg cttkgkgtt tgktttattg tagaatctat	1140
accccatca nagaagatac cgagactgtg ggccagagag ccctgcactc aattctgaat	1200
gctgccatca tgatcagngt cattgtwgtc atgactannc tcctggtggt tcwgtataaa	1260
tacaggtgct ataaggtgag catgagacac agatcttgn tttccaccct gttcttctta	1320
tggttggta ttcttgcac agtaactaa ctgatctagg aaagaaaaaa tgtttgcgt	1380
tctagagata agttaatttt tagtttctt ctcctcact gtggAACATT caaaaaatac	1440
aaaaaggaag ccaggtgcat gtgaaatgcc aggctcagag gctgaggcag gaggatcgct	1500
tggcccccagg agttcacaag cagttggc aacgtacaa gaccctgcct ctattaaaga	1560
aaacaaaaaa caaatattgg aagtattta tatgcatgga atctatatgt catgaaaaaa	1620
ttagtgtaaa atatataat tatgattagn tatcaagatt tagtgataat ttatgttatt	1680
ttgggatttc aatgccttt taggcattt tctcaamaaa taaaagcaga aaacaaaaaa	1740
agttgtact gaaaaataaa catttcata taatagcaca atctaagtgg gttttgttt	1800
gtttgtttgn ttgttgaagc agggccttgc cctnycaccc aggntggagt gaagtgcagt	1860
ggcacgattt tggctcactg cag	1883

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<210> 11
<211> 823
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(823)

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<223> where n may be either a or g or c or t/u, unknown or other

<400> 11

caggagtgga	ctaggtaaat	gnaagntgtt	ttaaagagag	atngggncng	ggacatagtg	60
gtacacanct	gtaatgctca	ncactkatgg	ggagtaactga	aggnggnsgg	atcacttng	120
ggtcnggaat	ntgagancag	cctgggcaan	atggcgaaac	cctgtctcta	ctaaaaatag	180
ccanaawnwa	gcctagcgtg	gtggcgcrc	cgcgtggttc	cacctactca	ggaggcntaa	240
gcacgagnan	tncttgaacc	caggaggcag	aggntgtggt	garctgagat	cgtgccactg	300
cactccagtc	tgggcgacma	agtgagaccc	tgtctccnnn	aagaaaaaaaaa	aaatctgtac	360
tttttaaggg	ttgtgggacc	tgttaattat	attgaaatgc	ttctyttcta	ggtcatccat	420
gcctggctta	ttatatcatc	tctattgttg	ctgctctttt	ttacattcat	ttacttgggg	480
taagttgtga	aatttggggt	ctgtctttca	gaattaacta	cctnnngtgc	gtgtagctat	540
catttaaagc	catgtacttt	gntgatgaat	tactctgaag	ttttaattgt	ntccacat	600
aggtcatact	tggtatataa	aagactagnc	agtattacta	attgagacat	tcttctgtng	660
ctcctngctt	ataataagta	gaactgaaag	naacttaaga	ctacagttaa	ttctaagcct	720
ttggggaagg	attatatagc	cttctagtag	gaagtcttgc	gcnatcagaa	tgtttntaaa	780
gaaagggtnt	caaggaatng	tataaanacc	aaaaataatt	gat		823

<210> 12

<211> 736

<212> DNA

<213> Homo sapiens

<400> 12

gtcttccca	tcttctccac	agagtttgt	cttacatta	ttactccttg	ccatttcaa	60
gaaagcattg	tcagctcttc	caatctccat	caccttggg	cttgcattct	actttgccac	120
agattatctt	gtacagcctt	ttatggacca	attagcattc	catcaatttt	atatctagca	180
tatttgcggt	tagaatccca	tggatgttgc	ttctttgact	ataacaaaat	ctggggagga	240
caaagggtat	ttcctgtgtc	cacatcta	aaatcaagat	ccccggctgg	actttggag	300

gttccttcca agtcttcctg accacccctgc actattggac tttggaagga ggtgcctata 360
gaaaacgatt ttgaacatac ttcatcgacag tggactgtgt cctcggtgca gaaactacca 420
gatttgaggg acgaggtcaa ggagatatac taggcccggaa agttgctgtg ccccatcagc 480
agcttgcacgc gtggtcacag gacgatttc actgacactg cgaactctca ggactaccgt 540
taccaagagg ttaggtgaag tggtttaaac caaacggAAC tcttcatctt aaactacacg 600
ttgaaaatca accaataat tctgtattaa ctgaattctg aactttcag gaggtactgt 660
gaggaagagc aggcaccacc agcagaatgg ggaatggaga ggtggcagg gttccagct 720
tccctttgat ttttg 736

<210> 13
<211> 893
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(893)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 13
ggatccggccc gccttggcct cccaaagtgc tggattaca ggcattgagcc accgctcctg 60
gctgagtctg cgatttcttg ccagctctac ccagttgtgt catcttaagc aagtcaactga 120
acttctctgg attcccttct cctnnwgtaa aataagnatg ttatctgncc nncctgcctt 180
gggcattgtg ataaggataa gatgacatta tagaatntng caaaattaaa agcgctagac 240
aaatgattt atgaaaatat aaagattagn ttgagttgg gccagcatag aaaaaggaat 300
gttgagaaca ttccnttaag gattactcaa gcyccccctt tgstgknwaa tcaganngtc 360
atnnamntat cntntgtggg ytgaaaatgt ttgggtgtct caggcggttc ctacttattg 420
ctaaagagtc ctacccgtag cttatagtaa atttgcgt tagttgaaag tcgtgacaaa 480
ttaatacatt cctggtttac aaattggtct tataagtatt tgattggntt aaatgnattt 540
actaggattt aactaacaat ggatgacctg gtgaaatcct atttcagacc taatctggga 600

gcctgcaagt gacaacagcc tttgcggtcc ttagacagct tggcctggag gagaacacat	660
gaaagaaaagg tttgtttctg cttaatgtaa tctatggaag tgtttttat aacagtataa	720
ttttagtgca caaagttctg ttttcttc cctttcaga acctcaagag gctttttt	780
ctgtgaaaca gtatttctat acagtntgct ccaantgnac agagttacct gcacnnctt	840
gtccntactt ccagaatgca cagatgtctg aggacaacca cctgagcaat act	893

<210> 14
<211> 475
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(475)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 14	
tcagaaaata cttnnnnca catgagaatc acatgagaac aagctgatgc ataattcctc	60
ctgtgatgga atgtaatagt aatttaacag tgtcctttct ttttaactgc ctcaaggata	120
cagcaaaata aaacaaaagc aatatgaagg ctgagaatag gtatcagatt atcataaaaa	180
gtatagatca aaaggaatct ggtkctnagg ttggcgcagc agcctctaga agcgacnagg	240
gagactttta gaactaccat tctcctctat aagtggatcc nangcccagg raaacttgat	300
attgagnaca atggccttac taaaataacc tgtgatccac tcggncat catctccacc	360
accaccataa atttgatgag tncctataat attccancca gngaaatac ctggragg	420
actgaaaggc nacnatcaga cnaaaataaa gnataccgta ggtaaattct acagt	475

<210> 15
<211> 180
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(180)
<223> where n may be either a or g or c or t/u, unknown or other

```

<400> 15
gttctcnaga tctcttcaaa attcatntg cgctatagga gctgggatta ccgcgggtgc      60
tggAACcaga ctgcnctcc aatggatcct ccanacngga ngggggtgg actcacacca      120
tttacagggg gctcgtaaag aatcctgtt tgantattnt nccgtcaatt accnccccaa      180

<210> 16
<211> 457
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(457)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 16
aatgtaacma cmaaaccyca aactcctgna agaanatggt tacttatnga tnccattnc      60
ttttncact ctcagacata aatataaacf mantttctac tgtgraaaa catctncagg      120
ggnncnttan ccatgatctc tagnacnang ggctngtggn tngtttaat gtctctaagc      180
nactngacta gtttctcttn cactgagnaa actgcnaaaa gtnnttnctn ctgnatctgn      240
actgnaatgc taagtncaa gtnccaatga gctngtgant tanyctttat ttnamcnaaa      300
gtnnttaatc anccncagtg ttactttgna aagctnctcc ctggacaggc ggcccnactt      360
ctaatgttat gaatgggctg gagnancctc nacntgagtt tnnwaaggnt caacanccaa      420
trgnaantgt amccgactct aaattccaaac cnataat                            457

<210> 17
<211> 373
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(373)
<223> where n may be either a or g or c or t/u, unknown or other

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<400> 17
atctgtgcta ggttagtgtac taatcattca gtttatctca tttaatctnn atgnaactct 60
aagtcatcg ctntgancna cacataaacag atctcgcaac tgnagtttag cgaggccagt 120
taatttkcca aagntcataa tnctaagnag ttctagnatg gagattcmaa gtccnactgt 180
ttagtcaaga gaccctactg ttaactagta cctttacact actaactggg taancataa 240
ncaattaatg ataaagattg agattactkc cacattctca ctggttataa attaaaacnt 300
caaataaaaaa ntcttggcac ttctatggta atattttat taggataaac tttcaagnag 360
tggatnctag gtg 373

<210> 18
<211> 422
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(422)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 18
cccacactgn tggccatgg aagccatgag tgtaccacat ggccctgtcc cactggccac 60
agtngattgg ttggntcggg agtagtcacc tgattcaagn tggccaatc agatcctacc 120
tccanggggt tnggaattag aaaacagtga ccctagyttag tntaggcnac ttgaactgga 180
gggcccatac attcaggagc cttatgggc catgtacaca tggaagcagg aagantgaag 240
gagggagaag tagaggccag aaacccacct gggttcctgt ttcccaatgn taagtccctg 300
ccatgtcct gctttcctg tggtnngat cttcaaaggt tgctcaaatt nggggcagtg 360
gccctggcag ctttcaaatt cctycccatt tttattgaag ctgaaagacc cttgactaga 420
ac 422

<210> 19
<211> 395
<212> DNA

<213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)..(395)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 19
 attgttattt ttcgtcacta cctccccggg tcgggagtgg gtaatttgcg cgcctgctgc 60
 cttccttgga tgtggtagcc gtttctcagg ctccctctcc ggaatcgaac cctgattccc
 cgtcaccctgt ggtcaccatg gtttaggcacg gcgactacca tcgaaagtta atagggcaga 180
 tctcgagaat tctcgagatc tccntcmaat tattacttca nttkcggtag tgatcagnac
 naggcagttc tattgatttc tctcctttca ttctgagttt ctccataaat taattggacc
 taatcatgtt tknaatcctg tcttttaggg ggnanttgnna ctntcaagtg tttaaaggga 360
 gggncggagn atgattntgg attggagtga gagca 395

<210> 20
 <211> 487
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)..(487)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 20
 cagantttct ggtnaaaaag gacctnanac ataatatagt ggacttncaa taaacactta 60
 ccaaatggan aaatgaaccc ctggtcaccc cgatctcaact agtnctncc ctgaaaccccg
 ananatctga gtcctttct cctttaactaa cccttnctcc aatcctgctc atggaaatta 180
 angntgtaaa atangcctgg ggnacctcgg rcctctnccc tgggntctgt gggtgggagn
 actgtggaag ccgtwtcaat cgccccacc tatgagagcc tttctncagg gccagccatg 300
 aacgtcccccc atgtnatcag natctncagg ctactgctgt cttcytgga twtttaacct
 ggrggcgggc cagggacaga aaarggaggt ggcaagatcc ttgaacaaaa ggagctataa 420

aagggcgttg	gggaaagcaa	ggcaaacggc	agattaaaca	agcaggcacc	tcaaggaaac	480
gtgacgc						487
<210>	21					
<211>	500					
<212>	DNA					
<213>	Homo sapiens					
<220>						
<221>	misc_feature					
<222>	(1)..(500)					
<223>	where n may be either a or g or c or t/u, unknown or other					
<400>	21					
ctcgagatct	ggcccatcat	ttagtttat	ngcttgnagt	ntntagnaga	taaaacatcc	60
acgtggatct	nctcttagag	aaatcaanta	ctttaggnat	ntgatagtca	gagantggnt	120
atcaaatnga	aaggnatntn	ggtngancag	ttagtngyn	ccnttngnng	agaccactgg	180
gntgtngasa	ccagattcmk	gggtncnaat	cttangttaa	tctnagagcc	aacacatggg	240
tcatnttats	ccccaaactt	agccacatct	bgtgggyta	tggngtcacc	ccaagagcag	300
gaggagcatg	gntggatgga	aatccatctc	caccactgga	accccaawtt	ctgaatgnat	360
cacctgttag	agtttcttgt	ycataaaata	gcagggatt	taggaattta	gtttttttt	420
aatagtttgg	gcctttatc	cacactctca	ggagcttagg	atactttct	ccttcagctc	480
actctgaaac	tccctctgga					500
<210>	22					
<211>	406					
<212>	DNA					
<213>	Homo sapiens					
<220>						
<221>	misc_feature					
<222>	(1)..(406)					
<223>	where n may be either a or g or c or t/u, unknown or other					
<400>	22					

tcgagatctg tggtagtnac atgatattct ggcacmctact ttcatttatca cctttattaa	60
aataaaattta aagaaaaatg gcagttatgtt tctgtgragn ccacgagttac tcattttaaa	120
ggactcmaga gttncagrna agtaaaaagr aaagagtaaa atcattttct aanttywy	180
ttccagaaat aacgatgtt agcattaagt ggacttcatt tcatactctt tcmmagntta	240
tgttaggcata wawatgtgtg tgtatataca tatatatggg tacatcctta gagaagttgg	300
ctggctagat agacacacnt naaaaatggr atcatactct aatkccattt nnantttana	360
aaatacatat tcagancnc tgncttata nacagagtaa ntgaaa	406

<210> 23
 <211> 289
 <212> DNA
 <213> Homo sapiens

<400> 23	
gaccaggtaa aacttatctc atgagcataa ggctgaatgg gattgacagc ctacagaacc	60
cggttttat catgagggca ttagtggggg ttgggggtta ggtactgaaa gtttaaggag	120
gtgaaaggaa agcaacttgt gccttacagg gtcaagctag gtcaaggaaa ttcccaggag	180
cgtgtggaaag ctctctaccc gataggtgag ctcaagctta tgaccgccc agcttctccc	240
caagcttccc ttccactgct tcctcttgat tgacttccac agcaaggc	289

<210> 24
 <211> 367
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(367)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 24	
ccatcaggat ttactgagta aaaatctcag gtnttaacca tgcccctaaa atgtgctatn	60
ccaaagagga acaggttact tggagggaaa aaagctgcct gggnaactcc ccncaaatgt	120
ttatTTaaa taaaaatggt ngatggaaat atttntaaa agaacttggg gtntaatatg	180

gnatactgcc	catcaaacaa	aaaaggaaat	aaaacttcnt	tcccatttat	aataagttnc	240
ccacccttta	ctatcaagat	tacaacttat	tgaccttta	tgctngctng	gttttttgg	300
gactgcctaa	tccaatgttt	aaattttcta	ngtctgnatt	tcaatgtggg	taggagtnat	360
ttttcaa						367
<210>	25					
<211>	425					
<212>	DNA					
<213>	Homo sapiens					
<220>						
<221>	misc_feature					
<222>	(1)..(425)					
<223>	where n may be either a or g or c or t/u, unknown or other					
<400>	25					
gagtatctga	caggttaagat	tgcttttaa	agttgtttta	aatgcattac	atgactgaga	60
aaagaaaaat	gcacattta	ttgttgca	gtttaaaatttc	attnngngt	aaactaaacg	120
tgaaacaaaa	gggataaaatg	tggttgntt	ttgtttgg	tttacctgtt	tgggttattt	180
ttttctgagt	ttgtgtagaa	accgtgtgg	ntacactggg	taatcttgc	agggnacma	240
amcttgggtc	ttgantttgg	ttantggnt	ttantgg	naccatgta	cttgctctc	300
cntcccagaa	acatagctt	gtaggcnagg	gttaanccag	tgcggcga	cccatgtccc	360
tancacagca	tcttgtaagt	ttaatgcaca	atcgttccnt	cccaggatgg	anttacatt	420
ataaa						425
<210>	26					
<211>	2377					
<212>	DNA					
<213>	Homo sapiens					
<220>						
<221>	misc_feature					
<222>	(1)..(2377)					
<223>	where n may be either a or g or c or t/u, unknown or other					

<400> 26

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agcaagaaaa	agragraana	cgagaagaac	ccatggraga	ggaagaggan	ccagancmaa	120
agccttgtct	gaaacctact	ctgaggccca	tcagctctgc	tccatctgtt	tcctctgcca	180
gtggnaatgc	nacacctaac	actcctgggg	atgagtctcc	ctgtggtatt	attattcctc	240
atgraaactc	accagatcaa	cagcaacctg	aggagcatag	gccmaaaata	ggactaagtc	300
ttaaactggg	tgcttccaat	agtccctggtc	agcctaattc	tgtgaagaga	aagaaactac	360
ctgttagatag	tgtcttaac	aaatttgagg	atgaagacag	tgatgacgta	ccccgaaaaa	420
ggaaaactggt	tcccttggat	tatggtgaag	atgataaaaa	tncaaccaaa	ggcactgtaa	480
acactgaaga	aaagcgtaaa	cacattaaga	gtctcattga	gaaaatccct	acagccaaac	540
ctgagctctt	cgcttatccc	ctggattggt	ctattgtgga	ttctatactg	atggaacgtc	600
gaatttagacc	atggattaat	aagaaaatca	tagaatatat	aggtgaagaa	gaagctacat	660
tagttgattt	ngtttgttct	aaggttatgg	ctcatagtn	accccagagc	attttagatg	720
atgttgccat	ggtacttgat	gaagaagcag	aagttttat	agtcaaaatg	tggagattat	780
tgatatatga	aacagaagcc	aagaaaattg	gtcttgtgaa	gtaaaacttt	ttatatttag	840
agttccattt	cagatttctt	cttgccacc	ctttaagga	cttkaattt	ttcttgtct	900
tkgaagacat	tgtgagatct	gtaattttt	ttttttag	aaaatgtgaa	tttttggtc	960
ctctaattt	tttgtgcct	gtgtactccc	ttgggtgtaa	agtcatctga	atccttgtt	1020
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cagcctatct	gatataatct	tgttctgctg	atttgtttct	tgtaaatatt	aaaacgactc	1140
cccaattatt	ttgcagaatt	gcacttaata	ttgaaatgta	ctgtatagga	accaacatga	1200
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aaaaattcat catatcaaaa agtgaatgt aaaacccct taaaacaaa aaaaaaaaaat	1800
gaaataaaaat taggcaaatt gacagacagt gagagttta caaacatgtat aggtattctg	1860
ctcggcaatt tgtaagttt catgttattt aaggataaag gtaaatcatt caaggcagtt	1920
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cttggctcat tagtgtttaa aaatgtactg atgatgtgct tagagaaatt cctggggctt	2040
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taaacagctt tccacacaaa ttagatgcaa ctgttccat gtctgaggta cttatttaaa	2160
agaaaggtaa agattggcct gtttagaaaaa gcataatgtg agcttggat tactggattt	2220
ttttttttt taaacacacc tggagaggac attgaaaac actgttctta ccctcgaacc	2280
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aaaaaaaaaaa aaaattcctg cggccgcaag ggaattc	2377

<210> 27
 <211> 489
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(489)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 27	
attggagctc caccgcggtg gcggccgctc tagnaactag tggatcccc gggctgcagg	60
aattctcgag atctcccca agtaaatgaa tgaaaaaaaaag aacagcaaca atagagatga	120

tataataagc caggcatgga tgaccttata gcaccctgta tttatacaga accaccagga	180
ggatagtcat gacaacnatg acactgatca tgatnccagc attcagaatt gagtnccagg	240
ctctctggcc cacagtctcg gtatcttctg tgnatgggt atagattarc tgtccatcct	300
tccgggnata aaanctgact gacttaatgg tanccacgac caccacccat kcagagagtc	360
acagggacma aagagcatga tcaacatgct tggcnccata tttcaatntc anctcctcat	420
cttcttcctc atcttnctcc accacctncc gggagttAAC cctgggtcg tccattagat	480
aatggctca	489

<210> 28
 <211> 2307
 <212> DNA
 <213> Homo sapiens

<400> 28	
agggtgcttc agtgtggctg acacagcagc atggtcttga caagtttct tcattctacc	60
acaaaatccc agttggtaat agagacttta ctcttaccta tcaaaaccac aaaatgtccc	120
attagggggg gacatgttgt acatgttagg atcattcaaa taaccaagat tataaggtga	180
ggaaagatgc ccctaactga ttctttgtc tctcatcttgc ttgggtccag ggaccgagtg	240
gggtcaatct tctggtsstg cctctccagg tctcttccag gccggtcata gacgtactcc	300
ctctgaggcc gaccgatggt tagaagaggt gtctaagagc gtccgggctc agcagccccca	360
ggcctcagct gctcctctgc agccagttct ccagcctcct ccaccactg ccattctccca	420
gccagcatca cctttccaag ggaatgcatt cctcacctct cagcctgtgc cagtgggtgt	480
ggtcccagcc ctgcaaccag cctttgtccc tgcccagtcc tatcctgtgg ccaatggaat	540
gccctatcca gcccttaatg tgccctgtggt gggcatcact ccctccaga tggtgccaa	600
cgtwtttggc actgcaggcc accctcagggc tgcccattccc catcagtcac ccagcctgg	660
cagggcagcag acattccctc actacgagggc aagcagtgc accaccagtc ccttctttaa	720
gcctcctgct cagcacctca acggttctgc agctttcaat ggtgttagatg atggcagg	780
ggcctcagca gacaggcata cagaggttcc tacaggcacc tgcccagtgg atcctttga	840

agcccagtgg gctgcattag aaaataagtc caagcagcgt actaatccct cccctaccaa 900
ccctttctcc agtgacttac agaagacgtt tcaaattgaa cttaagcaa tcattatggc 960
tatgtatctt gtccataccca gacagggagc agggggtagc ggtcaaagga gcmaaacaga 1020
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gcccagagta ctgtgagggg tgatttgaa agacatggga aaaagcattc ctagagaaaa 1140
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tcattgtaaag tagcacatttgc caacaacaat catgcttgc accaatacag tcacttaggtt 1800
gtagttttt ttaaataaaag gaaaagcagt attgtcctgg tttaaacct atgatggaaat 1860
tctaattgtca ttattttat ggaatcaatc gaaatatgct ctatagagaa tatatcttt 1920
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taccatagaa gggAACACAG gttaccatat tgggggtaa tatgggtctt ggtgggttt 2040
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agctttgtgt gtgtcctctt ccccaaacc ccctttgggt gagaacatcc ctttgacagt 2160
tgcagcctct tgacctcgga taacaataag agagctcatc tcattttac ttttgaacgt 2220
tggcgcttac aatcaaatgt aagttatata tatttgcgtt gatggaaatt tataatctgc 2280

tttaacaaaa ataaatgttc atggtag 2307

<210> 29
<211> 343
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(343)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 29
ggcagctatt tacatggcct cacaggcatc agctgaaaag aggacccmaa aagaaattgg 60
agatattgct ggtgttgctg atgttacaat cagrcagttc tatagactga tctatcctcg 120
agccccagat ctgttcctta cagacttcma attkgacacc ccagtggaca aactaccaca 180
gctataaatt gaggcagyta acgtcmaatt cttgannacm aaacttkncc tgttgtacat 240
agcctatacm aaatgctggg ttgagcctt cataaggnaa aacmnaagac atggntacgc 300
attccagggc tkgantactt attgcttggc attcttgtat gta 343

<210> 30
<211> 363
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(363)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 30
aaagggctaa ccagccactg cacaaaaatt agtccttaca ttataatact ctggccattg 60
gaagagaaaa atggaaaaat tcaacaattt gaaagactat gatccctctg gctcatgatc 120
tactgaccag aatgaagtcc tgaaggattt ccttctgtta tgttatctac ccagctaattc 180
tcaaacaaga ggagctggaa agaacaaagc cccatgaagc taccctaga cccagaaagc 240
caagaacagg gccaagaaaa tgaacagcag acaagcctga aatagaagtg gnacagacat 300

gtggnaagac caagtacacc cagttnggtg gtaaagattc cgatatcaag cttatcgata	360
ccg	363
<210> 31	
<211> 362	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> misc_feature	
<222> (1)..(362)	
<223> where n may be either a or g or c or t/u, unknown or other	
<400> 31	
agtacatgg tttgncca cccasccac cttcccat ctctaccggy tgatagtctc	60
tcagntagta gacttttct ngttagrca gggcacntt tttaaaaact ccagacgggt	120
accctccatg tkmgaggcga cgtggccctg gatcactcaa ctgantgtca tnkgantgg	180
gccccccagag tgaggacaat ggtgnagccc tcctaaggcc ctnctgagt gtccttcctt	240
catgaagatg attctgaggn ttcccaggcc tncacccttc ttkgaaarcc catagnagtt	300
catatgnact nctctnctat gctcaccaaa ctctnccttc atcatacttg gggatgtgt	360
gt	362
<210> 32	
<211> 475	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> misc_feature	
<222> (1)..(475)	
<223> where n may be either a or g or c or t/u, unknown or other	
<400> 32	
gtgcatgtta ttacagttac gatatatgaa acgtacaaaa tattatgagt atataatatg	60
gggagactta atctagttg gggatcagg gcacattct ctaagaaagt gacattgaa	120

ttgagctctg aaggataaat agacattacc cagaagaata aaatgatggg gaagaaggag	180
gacattttcc gtagatttcc agtggcccn cttgatccct tatccactca tcactnagga	240
ggatattaaa tkctatagaa atggragraa gacmmaaaga gaccctnata tctcgagagg	300
atccagcmaa attccaagag acacaacawt aagaaactng gaaggaagag aaaaggcmmn	360
nnaggnaaaa gaaagacaag gaaattnwnn nagnacggag agaaagagag agggagcgt	420
naagggnacg agaaaggcga gnacggggac gagaaagggn aagagnacgt aaacg	475

<210> 33
<211> 346
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(346)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 33	
ggaaataaat gagatctcag tgggtgtatg gattggactg atctctgtaa ctgtgtntgg	60
aaaaaggacc ggaaaatgaa agccagatcc cagtaagggg tagagagggg ccaagagaac	120
tgaacatctg ggctgccgga gaaatcaaag tctaggaagt aagaggtaaag agtgtactac	180
aggggacata cccaatctc ttggttccct ccctctncct tcctctccca gagacccagg	240
tccctggac tatnttggat ctgtctctga agctgaaaaa caaaaggcag aggagacagt	300
cggntctaag tgaccaatct caagccagct tggtcagaan tcctaa	346

<210> 34
<211> 433
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(433)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 34
aaatccagt caggcaacat tatgtggaaa tagaaacagg gtcctgcta ggagattgan 60
attctggctt tcctttggaa cccctcactg actcatcgcc cctgaancag ganccancag 120
gtnccaaggc tcccctgctc ctntccctnc cccagggcga gataggaarc cggaarcctg 180
ggcaggctga rcccancgga ctggaaccag ggnagancct gtgggtgggt ggnagggagg 240
gaaggaggcc agattcctcc agaactgggg ragagaacag gtttggaaag ttgggggagg 300
gtttgggttt cacagtatg gttcatgan accctggagg gtnacacact cctggtkcan 360
tttgntant cgtncttga anacarnccg ctcccttca accctccncn taaaaagttt 420
tgatntttta agg 433

<210> 35
<211> 350
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(350)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 35
accaagagcc cccagtttat gntaactctc atgacaaaca caattttagt acctctcact 60
accaactatc caggaaccag gantcaccta ttactacggt tccagcagaa tggaatccc 120
attctcgat atccagggta aatccctgac catgtgagag gaatcctagt gccccaaacaa 180
cctcaccccc tgactcctcc tcaanggctc tgccaaagtca aaaaaaaaaat cctctacatt 240
tacactatct gtaaagccaa agaccagcgt caacctaaat gtccatcaat aagggaatgg 300
ttggataagt aaaaattatg cagctgtagg aaggaatgaa gaatgtctat 350

<210> 36
<211> 512
<212> DNA
<213> Homo sapiens

<220>

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<221> misc_feature
<222> (1)..(512)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 36
aaagggaaca aaagctggta ccggggccccc cctcgaggc gacggtatcg ataagctgga 60
tatcgaatcc tcgagatcta cctaaaaaaaaaaa aaaaattaac ttcccaaatg tgggagtc 120
ctctgttccc tcctngtntt tattnctgtn tactttycta anatggttaa aatgtgtaan 180
caatatgtgt ccttnactn kggkgtgaac atttttycta ttataaaatyc twagaaaata 240
ttnctatggn tatgagatat tkgattccaa gtgcctkgta atttactyct caaatgtccc 300
tcatgtkgga nattkgttnc tagtgttyca ctatttaaaa aaacagnaat atctgtctnt 360
atgctnagag cttnytcagt ttcycaaatta ttnccttagg gtaaaatcct agaagtagaa 420
ttttggggc aaatttatcta catatttata attgtcttgg tattccaaat ctcgtttcc 480
aaaagcttat atcaatttgt acttaacacc ag 512

<210> 37
<211> 450
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(450)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 37
attnaagatg actgggggtc tctncctaattt cccatactcc actggagagg anaagtggga 60
aagggttggtc tagttarggt ngnntggggac cctcccaaga gctgnagaag cagagataag 120
nagagcctnc tnctaaatcc acatggncct yccaaggntc tcattcctcta ggacctacca 180
ctnctcagtc tacttacttg tctyctgana tgctttctng aggggnagaa aacaaaggaa 240
gagtaataac aagcagnaga aactgcagag aatgnaaaat aagtccatag gagaatgttg 300
naaatagaat catccncctt tacatattgt cactccagga aaactgccaa gaaccactca 360

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ttcctctaga tacamttcct gtaggatccy cccagacttc ctccttaag cacgtcagta	420
ttctccttat tctcccttca tttcaaccct	450
<210> 38	
<211> 766	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> misc_feature	
<222> (1)..(766)	
<223> where n may be either a or g or c or t/u, unknown or other	
<400> 38	
cgagatctgc cccagccac atttccttg ttgaatgagt agagaagact gagaagtatc	60
actcacccgt gatgtggttt gtcctttc cagccagtgt gttggtaata aaagtcacct	120
ttcagagctt tggccccgt aatgcccgtc tttcctgtgt ccaggaataa ccttgntac	180
taggcagtcc tctgaaagat ttgtagaagg ttaaagtgga aaggacttg gaagctcata	240
gaatccatgc ctcttcttt agcatcaagg aattagaagt cctgagagat gaagaatgtt	300
gtctcccaa ctc当地acca tttcttgaag ccattccct ggtaactgna ttggccacaa	360
ccctcccccc ttgntatcct catcctgcta atgctgttt taatggcctg ccagtctgga	420
tttgtctttg gcaaccaaac aattttgctt cacaagattc ctacttaagg gaagagaggg	480
gctcctcatt tntcacttgt acaagagcag ggctggtcag cttaacacag gtgtcagatg	540
aaccgtcaca anccagantt ncatgttggc ctcaggaggg cttnaggtc caacatctcg	600
acgtaaggag cgttcccaagt tcttcatgc tcagataaca gtnctaactn cagctgttc	660
atcccnaatc cctanttgag gtcttaacat ctattccatt ttkccnacma gggttatnct	720
gttaaccctc tncaccagan ttaganctga ctgatncact tcctag	766
<210> 39	
<211> 327	
<212> DNA	
<213> Homo sapiens	

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<220>
<221> misc_feature
<222> (1)..(327)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 39
tcatacttgt atagttcknt aagataatca ctctctcaact cagacatnng gngrarngcc      60
cntcgatcac ttgganagg ngacttgcma tgtaatga ttgtcanccm nanaantaag      120
ctnacagggc aaaaacagcc tyangtcagt tctntctccc taatcctcta graknaaatc      180
nnawrntrnn actctgnntc tgtgccatna nanatntnc anttgtattt atgnactcca      240
catngagtagc acctcaactaa wtntnctnct gggnaacncc cscmccantt ttnnnttgnt      300
gananacarc aatgctggca tacngtg      327

<210> 40
<211> 431
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(431)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 40
ccagactttc ataactngtg ttattatgaa gattagagtn ctgaagctta ctggattaga      60
agagnacgag gggtagctg cccaaatata ttctaaatttc tctkgaggac caccaaatng      120
gmagagtgtc tctgataggg aaaaggaaga gttggaaggn atcttagcct ctagganaaa      180
agaaccattt ttattggcca ccaaagttac atctagtkgc ctacaaattt atntccaaac      240
tccttatcct gccaattcag ggtcctgnaa actgatgcc aactatagtt tagtctncta      300
tcacatgact gcattataca tacccatta tctggmaaa cagacctgat ccaaacacag      360
ttkggtncctt tcctncctt nccttkgttt agcctgtycc gtctactngg ggtgtcttkg      420
atttgctcca g      431

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<210> 41
<211> 276
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(276)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 41
ttttttcca ccagacttac caaatttttag atgnatggaa gaactgtaaa tncccataaa 60
gntaatctat ncatngaccc ccaccattat gatagagatc atntgggtgan taatgaaaga 120
tgaaaactctc agctgggaaa gtaanaagga ataggatgta agtatgagct cctgttttt 180
attatnttta tggatgcccc ctcagaaaaa tatgnaangg ggtaactgac tnggaaatgg 240
gtntttatg natagtaagt cccactcacg aggttt 276

<210> 42
<211> 270
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(270)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 42
tcgagatcta aagcagatgn agacttnca cnnaataaat ttactgctt tttycgtgtga 60
nataagttnc gagaaggaaa gctttkgatt nctrnatgag tycagtggat tatyctnagn 120
actagagtkg nkgtkgagn catggncat ttatatagtw ywttcagttc tacactaaat 180
gatggaagaa tgagaaatcc tatatgacaa atagaaaagt ycatyctyca taattgagaa 240
cattgagcag ttggattacc aagatctcga 270

<210> 43
<211> 580
<212> DNA

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<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(580)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 43

cttagttta	gactagttc	attatactac	cagttctaa	tatgttggtt	ttttattcac	60	
tatttgat	at	ttgtttta	atatagttc	ttgttttagc	aggtaaaaga	atcataacaa	120
atgttttaa	aagaacatta	ttattctta	ataactgtct	ttttatgcat	ttggcatgcc	180	
aactttttc	attaacatct	tgggtat	ttt	ataaaagag	ggaaagctca	atgtttaaca	240
ggtagcttt	cttaggagct	aaattaata	tttaacaaat	ctccttcct	tcncccttcc	300	
ccatccctca	aagnatgggt	gnanttatct	ttaactttg	ggctngcatc	cntgnaagct	360	
tatggntant	catagtctna	cmaaactagg	gtcaccnaac	ttggcagcag	aaataatcta	420	
gtcttactgt	gataactacc	caattacttt	attat	tttc	cagttncagt	tccaaatgtt	480
ttgtggnaan	aattttnct	gtt	ttgtgatt	ttccaagctt	agagggggaa	accaactttc	540
cagtgttga	gagcactgna	tagttatgn	attgtgtaaa				580

<210> 44

<211> 348

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(347)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 44

tgtttcttaa	nacagaaaaa	aatttactga	tnggacattg	ttcttaagtgt	attattgtat	60	
taaatggatc	at	taatttta	atcttcataa	ctgacatagg	agttgagtaa	cttgtgtgg	120
caaata	tagcta	gt	taatgtatg	agtggctgg	gcgcagtggc	tcaagcctgt	180
ctctgggagg	ctgaggcagg	cagatcactt	gaggtcagga	gtttgagacc	agcctggnc	aatcccagca	240

acatggnaaa acctcgctc tactaaaaat acaaaaatta gctgggcgtg gtgggngcgc	300
actttagnc ccagntactc ggaaggctng aggcaggagg aatcgctt	348
<210> 45	
<211> 430	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> misc_feature	
<222> (1)..(430)	
<223> where n may be either a or g or c or t/u, unknown or other	
<400> 45	
gctcatcatg ctacacgggg gaggctgtgc gggagaatg ctcccacaca gnataaagaa	60
tgctcccgca caggatagag aatgcccccg cacagcatag agaagcccc gcacagcata	120
gagaatgccc ccncacagca tagagaagcc cccgcacagn atagagaatg ctcttcaccc	180
ctgggttttt aaccagccaa actaaaatca cagagggcaa cacatcattt aagatagaaaa	240
tttctgtatc tttaatttc ttcaaagta gtttactta ttncagatt ctatttcttt	300
actagaatta agggataaaa taacaatgtg tgcatatga accctatgaa acaaacaaaa	360
gctaggtttt ntncataggt ctnctccnn attgaatgaa cgtctntcct caaatttanc	420
cccccagggaa	430
<210> 46	
<211> 402	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> misc_feature	
<222> (1)..(400)	
<223> where n may be either a or g or c or t/u, unknown or other	
<400> 46	
caaaccctat gngaaatgga aaggaaacta ttctaaagca taaaaggtag aaatataat	60

accacccatc aagaaagatt attttgntg aactcaagtc accagagtgg ctaaagccca	120
gtagaatgga aatgattata tggaaaggta ggccaacggg accagaacat actgtgatag	180
acagnaagga gctgtctatc ttctattctc ccacagaagg aggtgactaa gtcancgtcc	240
caagcaatgt tatactgca attgatgtnc agcagtacaa gtctgaacaa cttggattgg	300
ntgattaant gtccnacant aaacatacaa gtcntaatag ctatcttat atagtctttg	360
ggtnnttaca aggcactgnc acatnatctc acctattcct cc	402

<210> 47
<211> 500
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(500)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 47 agnatccaga attgagtgna gngttctctg gnccacagtc tcggtatctn ctgtgaaatg	60
gggtatagat tctacaataa aacaaacaca nnggcctag gtcagtgtta atggagatca	120
ccanccacat taccacctcc aacacagaat tttcttttc ttaatncaat ncgtntctta	180
taagtcactt tnccccact caccaatcta gntaagaatt tttaccctga gaaaaacagc	240
tacactctaa aattgctnca aagaaaatgt ctaacatntg gaaagaagga cttaacatgt	300
gangnagaca ctggctccat cttagnggtg ctttntttg aaataattat aatnccncat	360
caaatttng gggntacag cttatttaga acttggttata gaaccagatt ctgccacaga	420
anccacgtgg gttgacaagt ggttgncaaga agaaaggtaa tatggcttat nattagggnc	480
tcncatctgc agagtaattg	500

<210> 48
<211> 460
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(460)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 48
aaaatgcttg anncaaatgt catctagttc catctctacg actctcatgg ggtccaaaga 60
agagtttan ttgagttta gaatgtgaag ttgtgaagtg tctgaaaaac tacatggtn 120
tctgaaagnc aaacttttag cttggggga gagcatctaa gacagnaggt gaagggnagg 180
ggttagaact agagggattg aagaatatta tccatatagg ttagggttag gtnngcaac 240
gttttataga acaaacattg gcaagctaca gccacaggcc agatctgtct nctaccttcc 300
cacaagggtg taataacaaa gttattcaca aatgtgtgaa taaactnnca ttggaaagtg 360
cccacgctcc tngtttata cattgtctgt ggctgcttcc acactacagt agcacaggtg 420
agtgtntgca ctggagacca tatgccccat agagcttaa 460

<210> 49
<211> 372
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(370)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 49
atcaagcaac agtgtgttat gcctatactc catgttata tgtgtgtatt aaaaaatgta 60
tttngtatat atgtgtatgt ataagtgtgt gtgtgtgtat gatgattctn ctcccgnttt 120
gaagggtgaaa gaaagcacac ctttatttaa gcataaactt tgggttcan gatactgtct 180
ggaaaaatga tttatctccc actttgaaat tccaaaatac gtacatatat ttttttttcc 240
ttttcttttt tagtttnagg gtcttgctgt gttgccagg ctggagtgca gttagtgtat 300
catagntcac acagnctcta actcccaggn tcaagntatc ttccctgcccc agnctcctga 360
gtagntggga ct 372

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<210> 50
<211> 500
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(500)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 50
caaaaaatca aagggaaagt ggaaccctg cccacctctc cattccccat tctgctggtg 60
gtgnctgctc ttccctcacag tacctcctga aaagttcaga attcagttaa tacagaatta 120
ttgggttgat ttcaacgtg tagtttaaga tgaagagttc cgnttggttt aaaccacttc 180
acctaaccctc ttggtaacgg tagtcctgag agttcgcagt gtcantgaaa atcgtccctgt 240
gaccacgcgt caagctgctg atgggggaca gaaacttccg ggnctatcat atctccttga 300
nctcgccct caaatctggt agtttctgca ccgagggaca cagtcactg cgatgaagta 360
tggtaaaat cgntttcttt agggaaactcc ttccaaagtc caatagtyna aggtggtaa 420
ggaaggattt ggaaggaagn tgnaaaagtc agncggaat cttgatttgg ntagntgtgg 480
ananagaaaa tcacttggcc 500

<210> 51
<211> 105
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(105)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 51
gaaaagaggt ctcctaacac ccagacagtg taaaaatcca gttttcttc cttttgggnng 60
gagacagagt ctcgcactgt agctcaggct ggagtgcagt ggcac 105

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<210> 52
<211> 387
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(387)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 52
agtcccagct actcaggagg ctggggcagg aagatagctt gagcctggga gttagaggct 60
gtgtgagcta tgatcacact actgcactcc agcctggca acacagcaag accctaaaac 120
taaaaaagaa aagaaaaaaaaaa aaatatatgt acgtattttg gaatttcaaa gtgggagata 180
aatcatttt ccagacagta tctngaaacc caaagtttat gcttaaataa aggtgtgctt 240
tctttcacct tcaaagcggg agaagaatca tcatacacac acacacactt atacatacac 300
atataatacaa aatacatttt ttaatacaca catataaaca tggagtatag gcataacaca 360
ctgttgcttg ataaaatata gggatcc 387

<210> 53
<211> 380
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(377)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 53
tatatttnat caagcaacag tgtgttatgc ctatactcca tgtttatatg tgtgtattaa 60
aaaatgtant ttgtatatat gtgtatgtat aagtgtgtgt gtgtgtatga tgatttcct 120
cccggnnttga aggtgaaaga aagcacacct ttattnaagc ataaactttg ggttcnaga 180
tactgtctgg aaaaatgatt tatctcccac tttgaaattc caaaatacgt acatataattt 240
ttttttctt ttcttttta gtttnagggt cttgctgtgt tgcccaggct ggagtgcagt 300

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agtgtgatca tagntcacac aggctctaac tcccaggntc aagctatctt cctgccccag	360
nctcctgagt aggtggact	380
<210> 54	
<211> 521	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> misc_feature	
<222> (1)..(521)	
<223> where n may be either a or g or c or t/u, unknown or other	
<400> 54	
ctgcagtaag ccacgttcat gccactgtac tctagcgtgg atgacagaga gagatcctgt	60
ctttggaaga aaaaaacaaa aagaaaaaaaaaa aaagagtatg gccatggcct tataatata	120
aagggtcac atattaatct ctgaaaatgg atctcttgcgg ggcttcata caaggcaaca	180
gccacagagt acgtacactga aagctgcctg ggnttaatgg ctggagnat gttctaactn	240
gttcaggnac ccatgtcacn actggtggtt acagaatgtg aatctcacac tgcnnaaat	300
cggtttatt tttaaaanga ataattctan tacattacct tataaaaagt aggtaaccta	360
attttggntt tttaaaagtga attgaggca gatgcaagtg gntcacacct attaatccca	420
aataccttgg agagggcaag gtaggaggat tgggtggagc ccaggagtcc aaagaccagg	480
ctagggaata ttgnaagaan gtcctctcta caanaaanaa t	521
<210> 55	
<211> 516	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> misc_feature	
<222> (1)..(516)	
<223> where n may be either a or g or c or t/u, unknown or other	
<400> 55	

ctgcangaag	ctttnttnc	tttngggngg	agacagagtc	ttgctgtgtc	ancccaggct	60
gggggtgcagt	ggnacagtca	tagctcactg	caaccttcaa	ctccctggnt	catgcgatcc	120
tcccacttca	gcctctcaag	tagctagaac	tacaggtgtg	caccaccatg	cctgactaac	180
ttgtttattn	ngggagaga	gaacgntctt	gctatattgc	ctaggctggt	cnttgaactc	240
ttgggntnca	agcaatcctc	ctaccttggc	ctctncaagg	tantggat	tntaggtgt	300
gagccacntg	catctggcct	caattcactt	ttaaaatnca	aaatttaggtt	acctacttt	360
tataaggtaa	tgtattagaa	ttattcttnn	naaaaataaaa	accgatttg	gaaagngtga	420
gantcacatt	ctgtaaccac	cagtggtgaa	atgggtcccc	gaacaaggta	gaacataactc	480
ccagccattta	accccagggaa	gnhttcaagt	ccgtnc			516

<210> 56
 <211> 505
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(505)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 56	ggatcctgtt	tcttaaaaca	aaaaaaaatt	tactgatagn	acattgttct	aagtgttatta	60
	ttgttattaaa	tggatcattt	aatttaatct	tcataactga	cataggagtt	gagtaacttg	120
	tgtggtcaaa	tagctagtaa	gtgatgagta	ggctggcgc	agtggntcaa	gcctgtaatc	180
	ccagcactct	gggaggctga	ggcaggcaga	tcacttgagg	tcaggagttt	gagaccagcc	240
	tggccaacat	gnnaaaacct	cgtctctact	aaaaatacaa	aaattagctg	ggcgtggtgg	300
	gtgcgcactt	gtagtcccag	ctactcgaa	gggttgaggc	aggaggaatc	gcttggtccc	360
	cgggagggag	aggttgnntng	tgnagctgag	atcacgccac	tngcaactcca	ggctgggnaa	420
	caaaaggag	acctttnctc	aaaaaaaaat	naaaataaaa	agtgtatgagt	aggattggga	480
	cccnagacat	cttttctcca	agacc				505

<210> 57
<211> 500
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(500)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 57
ctgcagnctc aaacccttgt cctggatca aacaatcctc ccacccatc cttcaaagta 60
gatagaacta caggcatgca ctaccatgcc taattttta aaaaaaaaaatt ttttttcaga 120
gatgagatct cactgtgtt cccaggntt tccggaaactc ctggactcaa gcgatcctcc 180
caccttgggc tgccaaagtg ttgggattac aggcatgagc caccatgcct ggccatacac 240
ttttttttt ttttaanca agacggagtc tngttctgtc gcccagactg gagtgcaggg 300
gcgttnatct tggctcactt gaaagcttcg cctcccaggg ttcatgccgt tctcctgnct 360
cagcctccca agtnggtggg actacaggna tctgcaccac gnccggttat ttnttgggtt 420
tgnngnaggg acggggtttc accatgttag gcaggatgac ttggacttc cngacccaag 480
atcaccctgc tcggctccca 500

<210> 58
<211> 440
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(440)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 58
gaattccaga cgagcctggg caacacagtg agactctatac actacaaaaa aattttaaaa 60
tttagctaaag ttgatggcac atgcctgcag tccagctac tcaggaggct gggcaggaa 120
gatacgcttga gcctgggagt tagaggctgt gtgagctatg atcacactac tgcactccag 180

cctggcaac acagcaagac cctaaaacta aaaaagaaaa gaaaaaaaaa atatatgtac 240
gtntttgggg aatttcaaag tggagataa atcattttc cagacagtnt cttgaaaccc 300
aaagtttatg cttaaataaaa ggtgtgctt cttdcacctt caaangcggg agaaggatca 360
tcatncacac acacacactn atcatncaca ttttacaaa tncaatnnn naataacaaca 420
cattttaaca tggggtttg 440

<210> 59
<211> 513
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(513)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 59
ggatcctgtt tcttaaaaca gaaaaaaaaatt tactgatagn acattgttct aagtgtatta 60
ttgttataaa tggatcattt aatttaatct tcataactga cataggagtt gagtaacttg 120
tgtggtcaaa tagctagtaa gtgatgagta ggctggcgc agtggctcaa gcctgtaatc 180
ccagcactct gggaggctga ggcaggcaga tcacttgagg tcaggagttt gagaccagcc 240
tggccaacat ggnaaaacct cgtctctact aaaaatacaa aaattagctg ggcgtggtgg 300
ntgcgcactt gtagtcccag ctactcgaa ggctngaggg aggaggaatc gcttgatccc 360
ngggagggag aggttggtng tgangctgag atcacgnac ttgnactcca gnctggnaa 420
caaangngag atcttntctc aaaaaaaaaat aaaantaaaa ngtgatgagt aggatttgg 480
ccccagacat cctntctcca ggacctggna ttc 513

<210> 60
<211> 390
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)..(390)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 60
gaattcctgg nctcaagtga tcctctcacc tcagcctccc aaattgctgg gattagagtg 60
tgagccactg tgccttagcct gcataatatct atttttaatg actgctaaat ctcattgtat 120
gaaaatttat gtccttagcta taaaatttgn tagcacatgt ttaattttt ctaatttcag 180
atgttttaaa ctaatatttc ccaaagtata gtatggcatt ttaggtatga tatgatctt 240
nntccttttc gtactcattt ttatagttat ggcctgtgca actggttcc catttatatg 300
aatgatacag agtttcctat taagaaaaag ttcagcttgg ggaaaaaaaaa agtgaattgt 360
caacttngag ggaaaaaaaaagt gaattatttgg 390

<210> 61
<211> 366
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(366)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 61
tcaagtacct ccctgaatgg actgcgtggc tcattttggc tgtgatttca gtatatggta 60
aaacccaaga ctgataattt gtttgtcaca ggaatgcccc actggagtgt tttcttcct 120
catctcttta tcttgattta gagaaaaatgg taacgtgtac atcccataac tcttcagtaa 180
atcattaatt agctatagta actttttcat ttgaagattt cggctggca tggttagctca 240
tgcctgtaat cttagcactt tggaggctg aggccggcag atcacctaag cccagagttc 300
aagaccagcc tggcaacat ggcaaaacct cgtatctaca gaaaatacaa aaattnncg 360
ggnatg 366

<210> 62

<211> 498
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(498)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 62
aacaccaggg ncatgagggc actaatcata atgagatatg cctgctggag tcgaagtgga 60
cctttccagt gaatggaaat cattcccacc acacccaaat tccagatcag gagtgnaaca 120
gtaatgttagt ccacagcaac gttataggtt ttaaacactt ccctgaaaaa aaattacaca 180
gattttaaaa gatgtacaat aatttccacc aaaacattat tttagaataat gtgatggctc 240
ccaaacatta gatattaatn tcccacctt ataattttac cataacctat atcaactgtg 300
ctattattta tttaatnctt ccctntaaat taatttactc ttttttgtt tttgttttg 360
ngtttggagc cagtgtctca ttttgggtgc ccaggcttgg agtaaagtgg gtgcaatcac 420
ggctcaactg nagtcttnc ctccnggaga tcaggtnggt cttccccagg tccaanctcc 480
taagttggtt ngganaac 498

<210> 63
<211> 469
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(469)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 63
taaacaacag ggncatgagg gcactaatca taatgagata tgcctgctgg agtcgaagtg 60
gacctttcca gtgaatggaa atcattccca ccacacccaa attccagatc aggagtgaaa 120
cagtaatgta gtccacagca acgttatagg ttttaaacac ttccctgaaa aaaaattaca 180
cagattttaa aagatgtaca ataatttcca ccaaaacatt atttagaata atgtgatggc 240

tcccaaacat tagatattaa tntcccacct ttataatttt accataacct atatcaactg	300
tgctattatt tatttaatnc ttccctctaa attaatttac tcttttttg tttttgttt	360
tgtgtttgga gccagtgtct cattttgggt gcccaggctt ggagtaaagt gggtgcaatc	420
acggctcaac tgnagtctt acctcccgga gatcangttg gtctttccc	469
<210> 64	
<211> 370	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> misc_feature	
<222> (1)..(370)	
<223> where n may be either a or g or c or t/u, unknown or other	
<400> 64	
gtttatcaag tacctccctg aatggactgn gtggctcatc ttggctgtga tttcagtata	60
tggtaaaacc caagactgat aatttggtttgc acacaggaat gccccactgg agtgtttct	120
ttcctcatct ctttatcttg atttagagaa aatggtaacg tgtacatccc ataactcttc	180
agtaaatcat taattagcta tagtaacttt ttcatttgaa gatttcggct gggcatggta	240
gctcatgcct gtaatcttag cactttggga ggctgaggcg ggcagatcac ctaagcccag	300
agttcaagac cagcctgggc aacatggcaa aacctcgat ctacagaaaa tacaaaaatt	360
agccnggnat	370
<210> 65	
<211> 316	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> misc_feature	
<222> (1)..(316)	
<223> where n may be either a or g or c or t/u, unknown or other	
<400> 65	

gtcatggtgt tggcggggag tgtcttttag catgctaatg tattataatt agcgtatagt	60
gagcagttag gataaccaga ggtcaactctc ctcaccatct tggtttggt gggtttggc	120
cagcttcttt attgcaacca gtttatcag caagatctt atgagctgta tcttgctg	180
acttcctatac tcataccgna actaagagta cctaacctcc tgnaaattga agnccagnag	240
gtcttggcct tatttnaccc agcccattt caaaatagag tngttttgg nccaaacgcc	300
cctgacacaa ggattt	316

<210> 66
<211> 448
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(448)
<223> where n may be either a or g or c or t/u, unknown or other

ctgcagnccg ggggatcctg gtaaaagtca caaggtcagc ctactaaagc agggaaaact	60
aaaggcaagt aaacacgtgc agacaaaaaa agggataaag aaaaggaatt aagaaactag	120
catttttaan gtgggggagg tgaatgcttc ccagaatggg tttatatcac ttgcttnggg	180
gccttctgag tggggnaac aacctgtcat catcacacat acctgtcatc ttatggtc	240
tccatacatt actaatagat tatacagatg gccatcactt aacacttcca ctcactcaat	300
ttgtncaca tgcaaggta cccttttt tngttacng ccacaaagca ttgganaagg	360
tttgtgattt ttactagccn ccacttcatc aaatttaagc atttttttt tcctnttaac	420
anccaggaca ggnttnaasn aaggaaat	448

<210> 67
<211> 450
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)..(450)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 67

ctgcagctcc aagcaccttt	ttcaaattca gcttctgtg	atttcagacc acatatgcaa	60
ggaactatct taccttaatt	aataagactt taaaatcctt	gtgtcagagg cgtttggacc	120
agagcaactc tatcttgaat	aggggctggg taaaataagg	ccaagaccta ctgggctgca	180
tttgcaggag gttaggtact	cttagttacg ggatgagata	ggaagtcagc acaagataca	240
gctcataaag gatcttgctg	ataaaaactgg ttgcaataaa	gaagctggnc aaaacccacc	300
aaaacccaaga tggtgaggag	agtgacctct gtttatcctc	actgntcact atacgntaat	360
tattatacat tagcatgcta	aaagacactc cccgcaacaa	ccatganagg tttacaagtt	420
nccatggnaa cgnncncgga	ngntancttg		450

<210> 68

<211> 388

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(388)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 68

ctgnagcctc caccacccag	gttcaggtga ttctcctgcc	gtagnctcat gagtagntgg	60
gattacagggc atgtgccacc	atgcccgact aattttata	tttttagtag agacggggtt	120
tcaccatgtt gggcaggctg	gtctcaaact cctgaccta	agtgatctgc ccaccttggc	180
ctcccaaagt gctgggattt	caggcgctg gcctgttact	tgattatatg ctaaacaagg	240
ggtggattat tcatgagttt	tctggaaag aggtggcaa	ttcccgaaac tgagggatcc	300
ctccccctnn nagaccatac	aaggtaactt ccggacgttg	gcatggnatc ttgttaaact	360
tgtcatggng ttggggggga	gtgtcttt		388

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<210> 69
<211> 500
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(500)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 69
ctgcagaagt atgttcctg tatggattat ctggataggg ctgaagttat gctgaattga 60
acacataaaat tctttccac ctcagggnca ttgggcgccc attgctttc tgcctagaat 120
attcttcct tttctaactt tggtggatta aattcctgtc atccccctcc tcttggtgtt 180
atataaaaag tnttggtgcc gcaaaagaag tagcactcga atataaaatt ttcctttaa 240
ttctcagcaa ggnaagttac ttctatatacg aagggtgcac ccntacagat ggaacaatgg 300
caagcgcaca tttgggacaa gggagggaa aggttctta tccctgacac acgtggtccc 360
ngctgntgtg tnctncccc actgantagg gttagactgg acaggctaa actaattcca 420
attggntaat ttaaagagaa tnatgggtg aatgctttgg gaggagtcaa ggaagagnag 480
gtagnaggtt acttgaatga 500

<210> 70
<211> 435
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(435)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 70
ctgcagagta attgcaactg gagttgtctt aagataatgt cacatatcca tcttcccctt 60
gtttctcatt cacagaaaaa cattttatt ccaggtgccatattccag ccaaaaagac 120
tttacttctg actcccttat atttaggatg gctatgagaa caagtaaggg caatgacttc 180

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tagggagatg ttttgttat ggaacttcta aggagagaat tctgctgaca tgtcctatgt 240
tctttctcc cctactcctt cctactgtca gaaatgaagg ctagggctcc agcctggacc 300
ctgaagtaag ctagaggtta gaagctaaag aagaaagaag gagattgagt cttggatga 360
acgtgaagcc accctactaa tctggactgn ctacctctgn actactctat gagagagaaa 420
gtatgtgcat tattt 435

<210> 71
<211> 439
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(439)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 71
catgctcttt gtccctgtga ctctctgcat ggtgggtggc gtggntacca ttaagtcagt 60
cagcttttat acccggaaagg atgggcagct gtacgtatga gtttggtttt attattctca 120
aagccagtgt ggctttcct tacagcatgt catcatcacc ttgaaggcct ctgcattgaa 180
ggggcatgac ttagctggag agcccatcct ctgtgatggt caggagcagt tgagagagcg 240
aggggatttatt acttcatgtt ttaagtgagaaaaggaaca ctgcagaagt atgtttcctg 300
tatggattta ctggataggg ctgaagttat gctgaattga acacataaaat tctttccac 360
ctcaggggca ttggcgccc attgntcttc tgcctagaat attcttcct ttnctnactt 420
ggnggattta aattcctgt 439

<210> 72
<211> 318
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(318)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 72
 tccatctcta cgactctcat ggggtccaaa gaagagttt aattgagttt tagaatgtgn 60
 agttgtgaag tgtctgaaaa actacatggt gntctgaaag ncaaactttt agccttgggg 120
 gagagcatct aagacagnag gtgaagggga ggggtagan ctagagggat tgaagaatat 180
 tatccatata gtttagggtt aggtgtggca acgtttata gaacaaacat tggnaagcta 240
 cagacacagg ccagntctgt ctnctacctn tccacaaagg tgtnataaca aagttannca 300
 caaatgtgtg aataaact 318

<210> 73
 <211> 450
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(450)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 73
 gttgcaaagt catggattcc tttaggtgc tacattatca accttttga gaataaaatg 60
 aattgagagt gttacagtct aattctatat cacatgtAAC ttttatttgg atatatcagt 120
 aatagtgcTT tttcnnnnn ttttttntt tttttnnntt ttnggggana gagtctcgct 180
 ctgtcgccag gttggagtgc aatggtgcgA tctggctca ctgaaagctc caccncccgg 240
 gttcaagtga ttctcctgcc tcagccnccc aagtagntgg gactacaggg gtgcgccacc 300
 acgcctggga taattttggg nttnnnnnnntt gagatggcgt ttcaccanct tggngcaggc 360
 tggtcttggaa actcctgana tcatgatctg cctgccttag cctccccaaa gtgctggat 420
 tncagggtg agccactgtt cctgggcctc 450

<210> 74
 <211> 489
 <212> DNA
 <213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)..(489)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 74
ctgcagntga gccgtgattg canccactt actccnagcc tgggcaanca aaatgagaca 60
ctggctncaa acacaaaaac aaaaacaaaa aaagagtaaa ttaatttaaa gggaaagtatt 120
aaataaaataa tagcacagtt gatataggtt atggtaaaat tataaagggtg ggatattaat 180
atctaattgtt tgggagccat cacattattc taaataatgt tttggtgaa attattgtac 240
atcttttaaa atctgtgtaa tttttttca ggaaagtgtt taaaacctat aacgttgctg 300
tggactacat tactgttgca ctcctgatct ggaattttgg tgtggtgaa atgatttcca 360
ttcactggaa aggtccactt cgactccagc aggcatatct cattatgatt agtgcctca 420
tggccctggc gtttatcaag taccnccctg aatggactgg gtggctcatc ttggctgtga 480
tttcagtagt 489

<210> 75
<211> 449
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(449)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 75
ctgcagnctt gacccctgg gatcaatcga tcctcccacc tcagcctcct aagtagctgg 60
aactacaggt gtgcaccacc atgcccggct aattttgtt ttttctgttag atacgaggtt 120
ttgccatgtt gcccaggctg gtcttgaact ctgggcttag gtgatctgcc cgcctcagcc 180
tcccaaagtg ctaagattac aggcattgagc taccatgccc agccgaaatc ttcaaattgaa 240
aaagttacta tagctaatta atgatttact gaagagttat gggatgtaca cgttaccatt 300

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ttctctaaat caagataaaag agatgaggaa agaaaacact ccagtgggc attcctgtga	360
caaacaaatt atcagtcttggtttacna tatactgaaa tcacagccaa gatgagccac	420
gcagtccatt cagggaggtta cttgataaa	449
<210> 76	
<211> 490	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> misc_feature	
<222> (1)..(490)	
<223> where n may be either a or g or c or t/u, unknown or other	
<400> 76	
ttcttgcgt tcccgacccg agcctggtgc cccttccca ttatgatcct tntcgttcc	60
ggcggcatcg ggatgccccg cgttgcaggc catnctgtcc cagnaggtt gatgacgacc	120
atcagggaca gcttcaagga tcgctcgccg ctcttaccag cctaacttcg atcattggac	180
cgctgatcgt cacggcgatt tatcccgct cggcgagcac atgaaacggg ttggcatgga	240
ttgttaggcgc cgccctatac ctgtctgcc tcccccggt tgcgtcgccg tgcattggagc	300
cggncacccg cgacctgaat ggaancggc ggcacctcgc taacggattc accactccaa	360
gaattggagc caatcaattt ttgcggagaa ctgtaatgc ncaaaccaac cttggcaga	420
acatatccat cggtccgccc atctccanca gcccacgccc ggcacatctcg ggcagcggtt	480
ggtcctgcag	490
<210> 77	
<211> 470	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> misc_feature	
<222> (1)..(470)	
<223> where n may be either a or g or c or t/u, unknown or other	

<400> 77
ctgcagtgtt taaaaataa aataaactaa aagtttattt atgaggagta cactgcttc 60
ttgtaaacac atgtacaagc catataatag agttcatttc nnaccctagt tacggaaaca 120
ctagaaagtc tncacccggc caagataaca catctttagg taaaaatagc aagaaatatt 180
ttatgggttgc ttacttaaa tcatactttt caggttggc acagtggntc atgcctgtaa 240
tcccagcact ttatgcggct gaggcaggca gatcagttga ggtcagaagt ttgagaccag 300
cctgggcaat gtggcaaaac ctcatctcca ctaaaaatac aaaaattagc caggcatgg 360
ggtgcacaca tgttaattcc cagctacttg ggaggnttga gacaggaggg tcgcttggnc 420
ctaggaggga agaagttgna gggancttaa tgtcaactgca ctctagnttgc 470

<210> 78
<211> 445
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(445)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 78
cactcaattc tgaatgctgc catcatgatc agtgcatttgc ttgtcatgac tannctcctg 60
gtggttctgt ataaatacag gtgcataaag gtgagcatga gacacagatc tttgntttcc 120
accctgttct tcttatgggtt ggttattctt gtcacagtaa cttaactgat ctagaaaga 180
aaaaatgttt tgtcttctag agataagtta atttttagtt ttcttcctcc tcactgtgga 240
acattcaaaa aatacaaaaaa ggaagccagg tgcatgtgta atgccaggct cagaggctga 300
ggcaggagga tcgcttggc ccaggagttc acaagcagct tggcaacgt agcaagaccc 360
tgcctctatt aaagaaaaca aaaaacaaat attggaagta ttttatatgc atggaatcta 420
tatgtcatga aaaaattagt gtaaa 445

<210> 79
<211> 496

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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(496)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 79
cctgtattta tactgaacca ccaggaggat agtcatgact acaatgacnc tgatcatgat      60
ggcagcattc agaattgagt gcagggctct ctggcccaca gtctcggtat cttctgtgaa      120
tgggtatag attctacaat aaaacaaaca caaaagccct aggtcagtgt taatggagat      180
caccaaccac attaccacct ccaacacaga atttcttt tcttaattca attcgnatct      240
tataagtcac tttcccaa ctcaccaatn ctagctaaga attttaacc tgagaaaaac      300
agctacactc taaaattgct tcaaagaaaa tgtctaacat atggaaagaa ggacttaaca      360
tgtgaagcag acactggctc catctagtgg gtgccttata ttgaaataat tataataacct      420
catcaaattt ttngggtagt agnttattag gaacttggta tggaaaccaga ttctgccaca      480
gaaaccacgn gggctg                                496

<210> 80
<211> 496
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(496)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 80
cattagataa tggntcaggg tggccaaggc tccgtctgtc gttgtgctcc tgccgttctc      60
tattgtcatt ctataagcac aagaaaaaca tttcagtaa atcagattct cagcagaatc      120
aaggtAACGG ttagacctgg gattaacaac agacccgtca ctatgagttc taaaaacctg      180
aagcaagaaa aaacaatgta caggaagtat gcagttaaa agtctagatt atctatcatt      240

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<400> 82	
gaattccttt tttttttt tttttttt ttntcctaa tgttttatt gtncctaga	60
taactggata gnacaaagtt ngnctngtt tttacttaa aaaacgtact ttccgcatac	120
tgtngcccgatgactttcc tgtcccatcg gaaaccagag tttccccagg tgagcccttc	180
ctatctgngg ntacatgatt tagctaattt aacaagaaga gagtaattcc ttnggattat	240
tatcaacatg aaacttggac tatgtctcta taagggtgaa cactgatttt tttttcttt	300
ttagaaacaa aaaccatcca cttattaatc caaactacgg gattggattt acaacaatca	360
tcgcatnaac tgaacatacg aagttaccac tcaaggaaat nacagaagaa cgttgnacaa	420
tntntcttac ggggtacng aattcaaaca atgtgggan aggaacttca ntctacaaan	480
tctgaccatc gnttcagtat	500

<210> 83
 <211> 450
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(450)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 83	
gaattccttt actcttcttt aattctaccg tctttggca tacatctcat ttgntgtgga	60
agaaggtctg acagnagggc tgacagcacc gattcataac acattcttt catcatacaa	120
agagtaagac cctagaataa tgggaccatc tgctaccacg acagagctgc cttactggct	180
gtagaaaaag actgcttgc tggagagaa gaatgaggac agaggaggca tctggggcaa	240
gtgagcgtac aagtatntct acaaattcag aatttggtgg aaaatccaaa tttgncttca	300
acatgataga gaattgatga gaaaatagct gtnctgtttc caaaatttac tgaatttggg	360
aacctgaggt taaaactttt agatnaagc aactcaggtt caagacttng nctnggaaag	420
gaatggaaac acagacggga atgagtnca	450

<210> 84
<211> 450
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(450)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 84
caactgtatt tatacagnaa ccaccaggag gatagtcatg acaacaatga caaacttagga 60
atagccccct ttcacttctg agtcccagag gttacccaag gcacccctct gacatccggc
ctgcttcttc tcacatgana aaaactagcc cccagtna tccgcaggtn gaggaatncc 120
ccgggtcgag gttcggatcc tggatgacag accctctcgc ccctgaaggn gataaccggg
tgtggtacat ggacggntat cacaacaacc gcttcgnacg tgagtacaag tccatggttg 180
acttcatgaa cacggacaat ttcacctccc accgtctccc ccacccctgg tcgggcacgg
ggnaggtggt ctncaacggt tctttctnct tcaacaagt ccagagccac atcatcatca 240
ggtttggacc tgaaganaga gaacatcctc 300
ggtttggacc tgaaganaga gaacatcctc 360
ggtttggacc tgaaganaga gaacatcctc 420
ggtttggacc tgaaganaga gaacatcctc 450

<210> 85
<211> 500
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(500)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 85
ggatccctcc cctttttaga ccatacaagg taacttccgg acgttgccat ggcatctgta 60
aactgtcatg gtgttggcgg ggagtgtctt ttagcatgct aatgtattat aattagcgta
tagtgagcag tgaggataac cagaggtcac tctcctcacc atcttggttt tggtggttt 120
tggccagctt ctatttgc accagttta tcagcaagat ctttatgagc tgtatctgt 180
tggccagctt ctatttgc accagttta tcagcaagat ctttatgagc tgtatctgt 240

gctgacttcc tatctcatcc cgtaactaag agtacctaac ctccctgcaaa tngcagccca 300
gtaggtcttg gncttatttt acccagcccc tattcaagat agagttgctc ntggtccaaa 360
cgccctctgac acaaggattt taaagtctta ttaattaagg taagataggt ccttgat 420
gtggtctgaa atcacagaaa gctgaatttg gaaaaaggtg cttggagctg cagccagtaa 480
acaagtttc atgcaggtgt 500

<210> 86
<211> 500
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(500)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 86
ctgcagttag ccaaaatcggt gccactgcac ttcactccag cctgggtgac agggcaaggc 60
cctgcttcaa caaacaaaca aacaaacaaa aaccactta gatttgctt ttatatggaa 120
atgtttattt tttagttaca acttttttg ttttctgctt ttatttggag agacaatggc 180
ctaaaaaggc attgaaatnc caaaataaca taaattatca ctaaatcttgc ataaactaattc 240
ataatatata tattttacac taatttttc atgacatata gattccatgc atataaaata 300
cttccatat ttgttttttg ttttctttaa tagaggcagg gtcttgctac gttgcccagg 360
ctgcttgcata actcctggc ccaagcgatc ctcctgcctc agcctctgag cctggcattt 420
cacatgcacc tggcttcattttttttt ttgaatgttc cacagtgagg aggaagaaaa 480
ctnaaaatata acttatctt 500

<210> 87
<211> 450
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)..(450)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 87
ctgcagatga gaggcactaa ttataagcca tattaccttt cttctgacaa ccacttgtca 60
gccccacgtgg tttctgtggc agaatctggt tctataacaa gttcctaata agctgttagcc 120
aaaaaaaaattt gatgaggtat tataatttatt tcaatataaa gcacccacta gatggagcca 180
gtgtctgctt cacatgttaa gtccttctt ccatatgtta gacatttct ttgaagcaat 240
tttagagtgt agctgtttt ctcaggttaa aaattcttag ctaggattgg tgagttgggg 300
aaaagtgact tataagatac gaattgaatt aagaaaaaga aaattctgtg ttggaggtgg 360
taatgtgggt ggtgatctc attaacactg anctaggnt ttggggttt gtttattgta 420
gaatctatac cccattcana gaagataccg 450

<210> 88
<211> 502
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(502)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 88
ctgcagccag taaacaagtt ttcatgcagg tgtcagtatt taaggtacat ctcaaaggat 60
aagtacaatt gtgtatgttg ggatgaacag agagaatgga gcaagccaag acccaggtaa 120
aagagaggac ctgaatgcct tcagtgaaca atgatagata atctagactt ttaaactgca 180
tacttcctgt acattgtttt ttcttgcttc aggttttag aactcatagt gacgggtctg 240
ttgttaatcc caggtctaac cgttaccttg attctgctga gaatctgatt tactgaaaat 300
gtttttcttg tgcttataga atgacaatag agaacggcag gagcacaacg acagacggag 360
ccttggccac cctgagccat tatctaattgg acgacccagg gtaactcccg gcaggtggtg 420
gagcaagatg aggaagaaga tgaggagctg acattgaaat atggcggcna gcatgtgatc 480

atgctcnttg gccctgtgan tc

502

<210> 89
<211> 499
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(499)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 89
ctgcagtgtt cctttctcc actaaaaaca tgaagtaata acccctcgnt ctctcaactg 60
ctcctgacca tcacagagga tgggctctcc agctaagtca tgccccttca atgnagaggc 120
cttcaaggtg atgatgacat gctgtaaaga aaagccacac tgggtttgag aataataaaa 180
caaaaactcat acgtacagct gccatcctt ccgggtataa aagctgactg acttaatgg 240
agccacgacc accaccatgc agagagtcac agggacaaag agcatgatca catgcttggc 300
gncatatttc aatgtcagnt ctcatcttc ttcctcatct tgntccacca cctgcccggga 360
gttaccntgg gtcgtccatt agataatggg tcagggtggc caaggctccg tctgtcggt 420
tgctcctgcc gttctctatt gtcattctat aagcacaaga aaaacatttn cagtaaatca 480
gatnctcagc agaatcaag 499

<210> 90
<211> 500
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(500)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 90
taactcccag gntcaagatn tctncctgcg ttagcctcct gagtagctgg gactataagg 60

atgtgccact attcctgaaa acataatcg tttgaaggt agtgtctggg ctggcgca 120
tggntcacgc cttcaatccc agcactttgg gaggncgagg tggcgatc acctgaggc 180
aggagttcga gaccagcctg accaacatgg gataagactc catctctact aaaaatacaa 240
aaaattagcc aggcatggtg gngcatgcct gtaatcccag ctactcagga ggntgaggna 300
ggagaattgg ttggaaccta ggaagcagag gctgtggtgg agccgagatc gcaccattgg 360
actccaggct gggnaacaag agtggaaatc cntcttaaaa aaaaaaaaaa aaaggtagng 420
tttgnccgg ngcggggggt cacgcctgta atcccagnat tgggganggc aaggnggggg 480
gtcannangn nagnagtccg 500

<210> 91
<211> 502
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(502)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 91
gaattctgct gacatgtcct atgttcttt ctcccctact ctttcctact gtcagnaatg 60
aagggttaggg ctccagcctg gaccctgaag taagcttagag gttagaagct aaagaagaaa 120
gaaggagatt gagtccttng atgaacgtga agccaccgt aatacttgaa ctgcctacct 180
ctgcactact ctatgagaga gaaagtatgt gcattattta aaccagttgg gttgatttc 240
tattaacaaa gtcagaaaca tctctgtaaa aagccagact gaatattta agctctatgg 300
gtcatatggt ctccagggca aacactcaac tgtgctactg tagtgtgaaa gcaggcacag 360
acaatgtatt aaccaaggag ggtggtcact ttccaatgaa agtttatcac aaattggnga 420
atacttgta ttacaccnng ggggaaggta ggagaagatc ttgcctgtgg ttgtngntgg 480
caatgttggc ctttatacg ng 502

<210> 92

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<211> 495
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(495)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 92
gaattctctc cttagaagtt ccatacacaa cacatctccc tagaagtcat tgcccttact      60
tgttctcata gccatcctaa atataaggga gtcagaagta aagtctggnt ggctggaaat      120
attggcacct ggaataaaaaa tgttttctg tgaatgagaa acaaggggaa gatggatatg      180
tgacattatc ttaagacaac tccagttgca attactctgc agatgagagg cactaattat      240
aagccatatt acctttcttc tgacaaccac ttgtcagccc acgtggttc tgtggcagaa      300
tctggttcta taacaagttc ctaataagct gtagccaaaa aaatttgatg aggtattata      360
attatttcaa tataaagcac ccactagatg gagccagtgt ctgcttcaca tgttaagtcc      420
ttcttccat atgttagaca tttcttgaa gcaattttag agttagctg tttctcaggt      480
taaaattctt agtag                                         495

<210> 93
<211> 500
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(500)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 93
tatggttgcc tattttgtc acagtaactn aactgatcta ggaaagaaaa aatgtttgt      60
cttctagaga taagttatt tttagtttc ttcctcctca ctgtggaca ttcaaaaaat      120
acaaaaagga agccaggtgc atgtgtaatg ccaggctcag aggctgaggc aggaggatcg      180
cttggggccca ggagttcaca agcagcttgg gcaacgtgc aagaccctgc ctctattaaa      240

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<400> 95
gacctagaaa agaaaggcatt tcaanntaat taacaggtcc cacaaccctt aaaaagtaca      60
gattttttt ttcttnngg agacagggtc tcactttgtc gcccagactg gagtgcagtg
gcacgatctc agtcaccac ancctctgcc tcctgggttc aagnanttct cgtgcttang      120
cctcctgagt aggtggaacc acgcgtgtgc gccaccacgc taggctactt tntgtattt
tagtagagac agggtttcgc catnttgccc aggctgntct caaattcctg acccncaagt      180
gatccccccn cttcagtagc tccccatcag                                         300
                                         330

<210> 96
<211> 382
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(382)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 96
ggggncgtt ctagaactag tggcnccaa ggnagaagaa gtttcttag tacagaacaa      60
aatgaaangt ctcccatgtc tacttcttc tacacagaca cggcatccat ccgttttct
cantcttcc nccaccttc ccgtcttct attccacaaa gccgnattg tcatcctggc      120
ccnttctcaa tgagctgttg nntacacctc ccagacggcg tggggncgg tcagagggc
tcctcacttc ccagtagggg tggccngca ggnngtgc ccacccccc gggcggggtg      180
gttngtccnn ccggngggnt gcaccncccc caccctccc cnctctncta ctggcggtcg
tntattncan natcttaag ca                                         300
                                         360
                                         382

<210> 97
<211> 360
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

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<222> (1)..(360)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 97

ggatccaaag	gaagtttagag	gccagcttag	tctacacctg	ctactgntca	gtgccaccc	60
ggtcaaggga	gaccaacaca	tggtaaagggt	caagggcttc	ttggaaggca	gtcagcagcc	120
tgtgcaagat	gttctccaca	ctgctcagnt	taaggggagc	tggggcagg	acctcagctg	180
gnatctctgc	ttcaccagtg	tccaggggtt	gcacaattct	tgtttactcg	taggatattt	240
aatcttggnn	ggtgctatca	taaatgggac	ttatccnctn	attatgtttt	cttactagtt	300
·gtttatgtga	aggttattga	tttgggttgc	actttattn	gtggnaatgg	agtttcactc	360

<210> 98

<211> 208

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(208)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 98

aatgtcacgg	attcctttag	gtagn tacac	ccatcaacct	tttgagaat	aaaatgaatt	60
gagagtgtta	cagtctaatt	ctatatcaca	tgtactttt	atttggatat	atcagtaata	120
gtgctttttt	ttttttttt	ttttttttt	tttttttng	gnganagagt	ctcgctctgt	180
cgccaggttg	gagtgnatg	gtgcgatc				208

<210> 99

<211> 470

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(470)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 99
aacaagggtt ctcggtcggc ggtgaatata ccggggcgtc gatattgtt gcgaaact 60
cccctgaccg taaacgtggc tttatggca gctggctgga cttcggttct attgccgggt 120
ttgtgctggg tgcggcggtg gtgggtttaa ttgcaccat tgtcgccgaa gcgaacttcc 180
tcgattgggg ctggcgtatt ccgttctta tcgctctgcc gtagggatt atcgggctt 240
acctgcgccca tgcgctggaa gagactccgg cggtccagca gnatgtcgat aaactggaac 300
agggcgaccg tgaaggttt gaggatggcc cgaaagtctc gtttaaagag attggcacta 360
aatactggng cagnctgttg aatgtttggg ctggtaatt ggcaaccaac gtgattacta 420
natgttggtg acctatattt ccgagttattt ggccgataac ctgaattatc 470

<210> 100
<211> 440
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(440)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 100
taattatatt gaaatgcttc tcntcttaggt catccatgnc tggnttatta tatcatctct 60
attgntgntg ctctttta catncattta cttgggttaa gttgtgaaat ttggggctg 120
tcttcagaa ttaactacct nngtgctgtg tagctatcat ttaaagccat gtactttgnt 180
gatgaattac tctgaagttt taattgtntc cacatatagg tcatacttgg tatataaaag 240
actagncagt attactaatt gagacattct tctgtngctc ctngcttata ataagtagaa 300
ctgaaagnaa cttaagacta cagttattc taagccttg ggaaaggatt atatagcctt 360
ctagtaggaa gtcttgtgcn atcagaatgt ttntaaagaa agggntcaa ggaatngtat 420
aaanaccaaa aataattgat 440

<210> 101

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<211> 449
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(449)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 101
aaaacaaagc ctcttgaggt tctgaaaagg gaaagaaaaa cagaacttg tgcactacaa 60
ttatactgtt ataaaaaaaca cttccataga ttacattaag cagaaacaaa ctttcttgc 120
atgtgttctc ctccaggcca agctgtctaa ggaccgcaaa ggctgttgtc acttgcaggc 180
tcccagatta ggtctgaaat aggatttcac caggtcatcc attgttagtt aaatcctagt 240
aaattcattt anaccaatca aatacttata agaccaattt gtaaaccagg aatgtattaa 300
tttgcacga ctttcaacta actgacaaat ttactataag ctcaaggtag gactcttag 360
caataagtag gaaccgcctg agacaaccaa acatttcaa cccacaaang atacttaat 420
gactttctga ttnccagca aaaggggggg 449

<210> 102
<211> 425
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(425)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 102
ggatccgccc tcctcgccct cccaaagtgt tgggattaca ggcgtgagcc accgcacctg 60
gctttttttt tttttttttt tggnggagac agagtcttac tctgttgccc aagctggagt 120
gcagtggtgc aatcttggtt cactgnaacc tccacctcca gagttcaagc aattctctgc 180
ctcagtttct ggagtagctg ggattacagg tgcctgccat cacgcctggc taaatttgg 240
atttttttt agtagagaca gggttcacc atgttggcca ggctggtctt gaactcctga 300

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ccttgtgatc caccagcctc ggctccaa attgntggga ttacaggcgt gagccaccac	360
aaccaggcta aagtttaaa acatgccaag tgtatttaca taatgcgata cganttatgt	420
acata	425
<210> 103	
<211> 386	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> misc_feature	
<222> (1)..(386)	
<223> where n may be either a or g or c or t/u, unknown or other	
<400> 103	
ggatccgccc gccttggcct cccaaagtgc tggattaca ggcattgagcc accgctcctg	60
gctgagtcgt cgatttcttgc ctagctctac ccagttgtgt catcttaagc aagtcactga	120
acttctctgg attcccttct cctnttgtaa aataaggatg ttatctgtcc nnccctgcctt	180
gggcattgtg ataaggataa gatgacatta tagaatntng caaaattaaa agcgctagac	240
aaatgatttt atgaaaatat aaagattagn ttgagttgg gccagcatag aaaaaggaat	300
gttgagaaca ttccnttaag gattactcaa gctcccttg gtgtatatca gnngtcanna	360
cntatcttng gggctgaaaa atgttt	386
<210> 104	
<211> 224	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> misc_feature	
<222> (1)..(224)	
<223> where n may be either a or g or c or t/u, unknown or other	
<400> 104	
aaaaagggaa agaaaaacag aactttgtgc actacaatta tactgttata aaaaacactt	60

ccatagatta	cattaagcag	aaacaaacct	ttcttcatg	tgttctcctc	caggccaagc	120
tgtctaagga	ccgcaaaggc	tgttgtcact	tgcaggctcc	cagattaggt	ctgaaatagg	180
atttcaccag	gtcatccatt	gttagttaaa	tcctagtaaa	tnca		224
<210> 105						
<211> 440						
<212> DNA						
<213> Homo sapiens						
<220>						
<221> misc_feature						
<222> (1)..(440)						
<223> where n may be either a or g or c or t/u, unknown or other						
<400> 105						
ggatccgccc	tcctcgccct	cccaaagtgt	tgggattaca	ggcgtgagcc	accgcacctg	60
gctttttttt	ttttttttt	tggnggagac	agagtcttac	tctgttgccc	aagctggagt	120
gcagtgggtgc	aatcttggtt	cactgcaacc	tccacctcca	gagttcaagc	aattctctgc	180
ctcagtttct	ggagtagctg	ggattacagg	tgcctgccc	cacgcctggn	taaatttggg	240
atttttttt	agttagagaca	gggtttcanc	atgttgcca	ggntggtctt	ggactcctga	300
cctggtgaac	caccaggctc	gggctccaaa	tttggttggg	attacagggg	gtnaancaac	360
cacaaccag	nctaaagttt	tnaaaacatn	caaagtgttt	taaaatnatg	ngatacgtt	420
tattgtacaa	ttaattttat					440
<210> 106						
<211> 448						
<212> DNA						
<213> Homo sapiens						
<220>						
<221> misc_feature						
<222> (1)..(448)						
<223> where n may be either a or g or c or t/u, unknown or other						
<400> 106						
gtcttccca	tcttctccac	agagttgtg	ccttacatta	ttactccttg	ccatTTcaa	60

gaaagcattg tcagctcttc caatctccat caccttggg cttgtttct actttgccac 120
agattatctt gtacagcctt ttatggacca attagcattc catcaatttt atatctagca 180
tatttgcggn tagaatccca tggatgttc ttcttgact ataacaaaat ctggggagga 240
caaaggtgat tttcctgtgt ccacatctaa caaagtcaag atccccggct ggactttgg 300
aggttccttc caagtcttcc tgaccacctt gcactattgg actttgnnaa ggaggtgcct 360
atagaaaaacg attttggAAC atacttcATC gcagggggac tgtgtcccc ggtggcagaa 420
nctaccaaga tttgcgggnc gaggtcaa 448

<210> 107
<211> 198
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(198)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 107
ggatccggccc gccttggcct cccaaagtgc tgggattaca ggcattgagcc accgctcctg 60
gctgagtctg cgatttcttg ccagctctac ccagttgtgt catcttaagc aagtcaactga 120
acttctctgg attcccttct ccttnagtaa aataagnatg ttatctgncc gccctgcctn 180
ggnnattgng ataaggat 198

<210> 108
<211> 500
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(500)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 108

ctgcagttag	ccgtgattgc	accactttac	tccagcctgg	gcaacaaaat	gagaccctgg	60
ctcaaaaaca	aaaacaaaaaa	caaaaaaaga	gtaaattaat	ttaaaggaa	gtattaaata	120
aataatagca	cagttgat	at agttatgg	aaaattataa	aggtggata	ttaatatcta	180
atgtttggga	gccatcacat	tattctaaat	aatgtnttgg	tgaaaattat	tgtacatctt	240
ttaaaatctg	tgtat	tttca	ggaa	gtgtt	aaaa	300
cata	tttca	tttca	tttca	tttca	tttca	360
ctggaaaggt	ccacttcgac	tccagcaggc	atatctcatt	atgattagtg	cctcatggnc	420
ctgg	gttta	tcaaagtacc	tccctgaatg	gactgcgtgg	gtcatcttgg	480
gtatatggta	aaacccaaga					500

<210> 109
<211> 500
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(500)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 109	ctgcagcctt	gacctcctgg	gatcaatcga	tcctcccacc	tcagcctcct	aagtagctgg	60
aactacaggt	gtgcaccacc	atgcccggct	aatngntgta	ttttctgtag	atacgaggtn		120
tngccatgtt	gcccaggctg	gtcttgaact	ctggccttag	gtgatctgcc	cgcctcagcc		180
tcccaaagtg	ctaagattac	aggcatgagc	taccatgccc	agccgaaatc	ttcaa	atgaa	240
aaagttacta	tagctaatta	atgattact	gaagagttat	ggatgtaca	cgttaccatt		300
ttctctaaat	caagataaag	agatgaggaa	agaaaacact	ccagtggggc	attcctgt	tna	360
caaaaacaaat	tatcagtctt	ggggttnac	catatactga	aatcacaggc	aagatgagcc		420
acgcagtcca	tncagggagg	tactggataa	caccagggn	atgagggact	aatcataatg		480
agatatgctg	ctggagtcga						500

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<210> 110
<211> 241
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(550)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 110
cncnnnnnn nnnnnnnatt tngtctgtgc cgcntaaata ttaattgtcc ctatacanta 60
ataagantgt gtcagagctc ttaatgtcaa aactttgatt acacagtcac tttaaggcag
ttctgtttta accccaggtg ggttaaatat tccagctatc tgaggagctt ttngataatt 120
ggacctcacc ttagtagttc tctaccctgg ccacacatta gaatcacttg ggagctttta 180
a 241

<210> 111
<211> 241
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(541)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 111
tcnnnnnnnn nccccntaaa tttctccctg ccccgnaaag gttacaaata tcaaaaagnt 60
ggtcactctt nggtatgatt tcacaattca aaactatcac tgccctactc aaccccacaa 120
tgaatgagag aagtcagtaa atgatataca aaattaggct tcagctgtgt ttnctttctt 180
tnggggttn ctacaatagg agtnccagat tctatgtgac tgactctgga gtcttaactg 240
t 241

<210> 112
<211> 241

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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(241)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 112
nnccccncn nnnnnnnntn ntnttgcccg ataactatag ggngacttgg agatccaccg 60
cggtggcggn cgntctagaa ctagtggatc ccccggnntg caggacccaa cgctgcccga 120
gatgcgccgc gtgcgggtgc tggagatggc ggacgcgatg gatatgttct gccaaagggtt 180
ggtttgcgca ttcacagttc tccgcaagaa ttgattggct ccaattcttg gagtggtgaa 240
t 241

<210> 113
<211> 241
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(834)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 113
cccccccncc nnnnnntttn ngcagcccg aattaccctc actnccggga acaaaaagctg 60
ggtaccgggc ccccccctcga ggtcgacggt atcgataagc ttgatatacg attcctgcag 120
tgtttaaaaa ataaaataaa ctaaaagttt atttatgagg agtacactgc tttcttgtaa 180
acacatgtac aagccatata atagagttca tttttaccc tagttacgga aacactagaa 240
a 241

<210> 114
<211> 241
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(838)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 114
ttgggcncnc gcccttaan ttttatnngttnctanaaa aanannnggc ncnnntaaaat 60
atatttttn ttgtgacccc tttaaaagg gaccnctaa aaaattttnt ggttnntttn 120
gatttangtg ggtgnntttn ttatattttt ggngagnntc tgtagtcntc nccctcaaac 180
anntcntacn atnggnancg tgactctgtc ntngtnann ntgcntntcn ngtnattcna 240
g 241

<210> 115
<211> 241
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(803)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 115
attcgcgcgt agcccgataa ctatagggcg acntggagnt ccaccgcggg ggcggccgct 60
ctagnaacta gtggatcccc cgggctgcag gaattcacgg actaatcctc tacagatctt 120
gctggagtgg cctttcagcc ttttgcact gtttgcgtg aaatgtacac acaagcctac 180
aaggcagccc agatgtacca taactgtggg aaaattaaaa aaaaaaaaaac acagaacctc 240
t 241

<210> 116
<211> 181
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(780)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 116

cnnnnnnnncc	cnntnattnt	acgccagccg	cgtattaac	cctcaactaaa	gggaacaaaa	60
gctgggtacc	gggccccccc	tcgaggtcga	cggtatcgat	aagcttgata	tcgaattcca	120
actcctca	tgccagatgt	gacctaagc	aagtgaactt	ctgtgtgcc	cactgtttc	180
a						181

<210> 117

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(803)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 117

nnnnnnnnnnnc	cnnnnnnntc	gnncgtaacn	cgantca	taggcgact	tggagctcca	60
ccgcgggtggc	ggccgctcta	gaactagtgg	atccccggg	ctgcaggaat	tcgatatcaa	120
gctttngtgt	gtaaaaagta	ttagaatctc	atgttttga	acaagggtgg	cagtgggttg	180
ggaggaggga	ttggagattg	atgcgatagg	aatgtgaagg	gatagcttgg	ggtggatttt	240
a						241

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<210> 118

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(819)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 118

tnccnnnncn	nnnnnaattt	tngcagnncgc	gtaattaacc	tcactaaagg	gaacaaaagc	60
------------	------------	-------------	------------	------------	------------	----

tgggtaccgg	gccccccctc	gaggtcgacg	gtatcgataa	gcttccctcc	ccttcctcag	120
ctctggcgac	cctgcgctgt	ggtggttctc	caaccacact	cattctcctc	agctggctcc	180
ttgctcttct	tccacccct	cgttggaaat	gttcctaagt	gtttggcttg	gcctcctctt	240
c						241
<210>	119					
<211>	241					
<212>	DNA					
<213>	Homo sapiens					
<220>						
<221>	misc_feature					
<222>	(1)..(796)					
<223>	where n may be either a or g or c or t/u, unknown or other					
<400>	119					
tnttggctgg	tactgcttga	gcaactggtg	aaactccgcg	cctcacgccc	cgggtgtgtc	60
cttgcagg	ggcgacgagc	attctggcg	aagtccgcac	gcctcttgtt	cgaggcggaa	120
gacgggtct	gatgctttct	ccttggtcgg	gactgtctcg	aggcatgcat	gtccagtgtac	180
tcttgtgttt	gctgctgctt	ccctctcaga	ttcttctcac	cgttgggtc	agctctgctt	240
t						241
<210>	120					
<211>	241					
<212>	DNA					
<213>	Homo sapiens					
<220>						
<221>	misc_feature					
<222>	(1)..(802)					
<223>	where n may be either a or g or c or t/u, unknown or other					
<400>	120					
attcgtcgta	ncccgatnac	tatagggcga	cttggagctc	caccgcggtg	gcggncgcgg	60
gcagggnccg	gncccttgtg	gccgcccggg	ccgcgaagcc	ggtgtcctaa	aagatgaggg	120

gcggggcgcg gncgggtggg gctgggaaac cccgtgtggg aaaccaggag gggcggcccg	180
tttctcgggc ttcgggcgca gccgggtgga gagagattcc ggggagcctt ggtccggaaa	240
t	241
<210> 121	
<211> 241	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> misc_feature	
<222> (1)..(793)	
<223> where n may be either a or g or c or t/u, unknown or other	
<400> 121	
atatgcagcc gcgttaattaa cctcactaaa gggAACAAAAA gctgggtacc gggccccccc	60
tcgaggtcga cggtatcgat aagcttgata tcgaattcct gcagccccggg ggatccggcc	120
cgcggcctcc caaaagtgcgtg ggattacagg cgtgagccac cgccccgggn ctcacatTTT	180
atttctattg gctagcgctg ctctaaatct tctgttcctt ctgctacacc aggcctaaca	240
c	241
<210> 122	
<211> 440	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> misc_feature	
<222> (1)..(440)	
<223> where n may be either a or g or c or t/u, unknown or other	
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tgcttttccn ttttttttt ttntttttt tnntttngg gganagagtc tcgctctgtc	180
gccaggttgg agtgcaatgg tgcgatcttg gctcactgaa agctccaccc cccgggttca	240

agtgattctc	ctgcctcagc	cncccaagta	gntggacta	caggggtgcg	ccaccacgcc	300
tgggataatt	ttgggnttt	tagtagagat	ggcgttcac	cancttgng	caggctggtc	360
ttggaactcc	tganatcatg	atctgcctgc	cttagcctcc	ccaaagtgct	gggatncag	420
gggtgagcca	ctgttcctgg					440
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<212>	DNA					
<213>	Homo sapiens					
<220>						
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tgggttaaat	attccagcta	tctgaggagc	tttngataa	ttggacactca	ccttagtagt	180
tctctaccct	ggccacacat	tagaatcact	tggagctt	taaaactgta	agctctgccc	240
tgagatattc	ttactcaatt	taattgtgta	gtttttaaaa	ttcccccagga	aattctggta	300
tttctgtta	ggaaccgctg	cctcaagcct	agcagnacag	atatgttagga	aattagctct	360
gtaagggtgg	tcttacaggg	gataaacaga	tccttcctta	gnccctggga	cttaatcact	420
gagagttgg	gtggnggtt	ngnatttaat	gac			453
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<211>	369					
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<220>						
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<400> 124		
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atncaatctg gaagaagagc tatgaaaaaa acctagctg gtnngttc ataggtnca	180	
ttatgnacac attgttattt tatcccttaa tnctagtaaa gaaatagaat ctgaaaataa	240	
gtaaaactac ttggaaaaaa nttaaaagat acagaaattt ctatcttaaa tcatgtgtgg	300	
gccnctgtga ttttagtngg gntggtaaa ancccagagg tgaagagnat nctctatgct	360	
gtgnnnnn	369	
<210> 125		
<211> 516		
<212> DNA		
<213> Homo sapiens		
<220>		
<221> misc_feature		
<222> (1)..(516)		
<223> where n may be either a or g or c or t/u, unknown or other		
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tgctccgca caggatagag aatgcccccg cacagcatag agaagcccc gcacagcata	120	
gagaatgcc ccncacagca tagagaagcc cccgcacagc atagagaatg ctctcacct	180	
ctgggtttt aaccagccaa actaaaatca cagaggscma cacatcattt aagatagaaa	240	
tttctgtatc tttaattt tttcmaagta gtttactta tttcagatt ctatttcttt	300	
actagaatta agggataaaa taacaatgtg tgcataatga accctatgaa acmaacmmmaa	360	
gctaggttt tttcatagst cttttccag attgaatgaa cgtctgttct aaaatttaac	420	
ccccccagggaa aatattcagt taactatgtt aaaaacccag acttgtgatt gagtttgcc	480	
tgaaaatgct ttcatatatta tgtgtgaatg tgtgtc	516	
<210> 126		

<211> 121
<212> DNA
<213> Homo sapiens

<400> 126
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ttcttatggc tgggtattct tgtcacagta acttaactga tcttaggaaag aaaaaatgtt 120
t 121

<210> 127
<211> 18
<212> DNA
<213> Artificial Sequence

<400> 127
tggagactgg aacacaac 18

<210> 128
<211> 21
<212> DNA
<213> Artificial Sequence

<400> 128
gtgtggccag ggtagagaac t 21

<210> 129
<211> 19
<212> DNA
<213> Artificial sequence

<400> 129
atctccggca ggcataatct 19

<210> 130
<211> 21
<212> DNA
<213> Artificial Sequence

<400> 130
tggaaatcaca gccaaatgtg g 21

<210> 131

<211> 19		
<212> DNA		
<213> Artificial Sequence		
<400> 131		
ccatagcctg ttgcgtac		19
<210> 132		
<211> 19		
<212> DNA		
<213> Artificial Sequence		
<400> 132		
ccatagccta ttgcgtac		19
<210> 133		
<211> 2792		
<212> DNA		
<213> Homo sapiens		
<400> 133		
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gaagggAACCT gagctacgag ccgcggcggc agcggggcgg cggggaaagcg tatacctaatt		120
ctgggagcct gcaagtgaca acagcctttg cggccttagt acagcttggc ctggaggaga		180
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ttgctccaat gacagagta cctgcaccgt tgccctactt ccagaatgca cagatgtctg		300
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acaacgacag acggagcctt ggccaccctg agccattatc taatggacga ccccagggtt		420
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gcgccaagca tgtgatcatg ctctttgtcc ctgtgactct ctgcattgtt gtggcgtgg		540
ctaccattaa gtcagtcagc tttataccg ggaaggatgg gcagctaatc tataccccat		600
tcacagaaga taccgagact gtggggcaga gagccctgca ctcaattctg aatgctgcca		660
tcatgatcag tgtcattgtt gtcattgacta tcctcctgtt ggttctgtat aaatacaggt		720
gctataaggt catccatgcc tggcttattat tatcatctctt attgttgctg ttctttttt		780

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tgtgccttac	attattactc	cttgccattt	tcaagaaagc	attgccagct	cttccaatct	1560
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ccttgcacta	ttggactttg	gaaggaggtg	cctatagaaaa	acgattttga	acataactca	1860
tgcagtgga	ctgtgtccct	cggtgcaagaa	actaccagat	ttgagggacg	aggtaagga	1920
gatatgatag	gcccgaaagt	tgctgtgcc	catcagcagc	ttgacgcgtg	gtcacaggac	1980
gatttcactg	acactgcgaa	ctctcaggac	taccggttac	caagaggtta	ggtgaagtgg	2040
ttaaaccaa	acgaaactct	tcatcttaaa	ctacacgttg	aaaatcaacc	caataattct	2100
gtattaactg	aattctgaac	tttcaggag	gtactgtgag	gaagagcagg	caccagcagc	2160
agaatgggaa	atggagaggt	ggcagggggt	tccagcttcc	cttgatttt	ttgctgcaga	2220
ctcatccctt	ttaaatgaga	cttggggcc	cctctctttg	agtcaagtca	aatatgtaga	2280

ttgccttgg caattcttct tctcaagcac tgacactcat taccgtctgt gattgccatt	2340
tcttcccaag gccagtctga acctgaggtt gctttatcct aaaagttta acctcaggtt	2400
ccaaattcag taaattttgg aaacagtaca gctatttctc atcaattctc tatcatgttg	2460
aagtcaaatt tggattttcc accaaattct gaattttag acataactgt acgctcactt	2520
gcccccagat gcctcctctg tcctcattct tctctccac acaaggcagtc tttttctaca	2580
gccagtaagg cagctctgtc rtggtagcag atggtccat tattctaggg tcttactctt	2640
tgtatgatga aaagaatgtg ttatgaatcg gtgctgtcag ccctgctgtc agaccttctt	2700
ccacagcaaa tgagatgtat gcccuaagcg gtagaattaa agaagagtaa aatggctgtt	2760
gaagcaaaaa aaaaaaaaaa aaaaaaaaaa aa	2792

<210> 134
 <211> 467
 <212> PRT
 <213> Homo sapiens

<400> 134

Met	Thr	Glu	Leu	Pro	Ala	Pro	Leu	Ser	Tyr	Phe	Gln	Asn	Ala	Gln	Met
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															30
Arg	Glu	Arg	Gln	Glu	His	Asn	Asp	Arg	Arg	Ser	Leu	Gly	His	Pro	Glu
															45
Pro	Leu	Ser	Asn	Gly	Arg	Pro	Gln	Gly	Asn	Ser	Arg	Gln	Val	Val	Glu
															60
Gln	Asp	Glu	Glu	Glu	Asp	Glu	Glu	Leu	Thr	Leu	Lys	Tyr	Gly	Ala	Lys
															80
His	Val	Ile	Met	Leu	Phe	Val	Pro	Val	Thr	Leu	Cys	Met	Val	Val	Val
															95
Val	Ala	Thr	Ile	Lys	Ser	Val	Ser	Phe	Tyr	Thr	Arg	Lys	Asp	Gly	Gln
															110
Leu	Ile	Tyr	Thr	Pro	Phe	Thr	Glu	Asp	Thr	Glu	Thr	Val	Gly	Gln	Arg

115

120

125

Ala Leu His Ser Ile Leu Asn Ala Ala Ile Met Ile Ser Val Ile Val
 130 135 140

Val Met Thr Ile Leu Leu Val Val Leu Tyr Lys Tyr Arg Cys Tyr Lys
 145 150 155 160

Val Ile His Ala Trp Leu Ile Ser Ser Leu Leu Leu Phe Phe
 165 170 175

Phe Ser Phe Ile Tyr Leu Gly Glu Val Phe Lys Thr Tyr Asn Val Ala
 180 185 190

Val Asp Tyr Ile Thr Val Ala Leu Leu Ile Trp Asn Phe Gly Val Val
 195 200 205

Gly Met Ile Ser Ile His Trp Lys Gly Pro Leu Arg Leu Gln Gln Ala
 210 215 220

Tyr Leu Ile Met Ile Ser Ala Leu Met Ala Leu Val Phe Ile Lys Tyr
 225 230 235 240

Leu Pro Glu Trp Thr Ala Trp Leu Ile Leu Ala Val Ile Ser Val Tyr
 245 250 255

Asp Leu Val Ala Val Leu Cys Pro Lys Gly Pro Leu Arg Met Leu Val
 260 265 270

Glu Thr Ala Gln Glu Arg Asn Glu Thr Leu Phe Pro Ala Leu Ile Tyr
 275 280 285

Ser Ser Thr Met Val Trp Leu Val Asn Met Ala Glu Gly Asp Pro Glu
 290 295 300

Ala Gln Arg Arg Val Ser Lys Asn Ser Lys Tyr Asn Ala Glu Ser Thr
 305 310 315 320

Glu Arg Glu Ser Gln Asp Thr Val Ala Glu Asn Asp Asp Gly Gly Phe
 325 330 335

Ser Glu Glu Trp Glu Ala Gln Arg Asp Ser His Leu Gly Pro His Arg
 340 345 350

Ser Thr Pro Glu Ser Arg Ala Ala Val Gln Glu Leu Ser Ser Ser Ile
 355 360 365

Leu Ala Gly Glu Asp Pro Glu Glu Arg Gly Val Lys Leu Gly Leu Gly
 370 375 380

Asp Phe Ile Phe Tyr Ser Val Leu Val Gly Lys Ala Ser Ala Thr Ala
385 390 395 400

Ser Gly Asp Trp Asn Thr Thr Ile Ala Cys Phe Val Ala Ile Leu Ile
405 410 415

Gly Leu Cys Leu Thr Leu Leu Leu Ala Ile Phe Lys Lys Ala Leu
420 425 430

Pro Ala Leu Pro Ile Ser Ile Thr Phe Gly Leu Val Phe Tyr Phe Ala
435 440 445

Thr Asp Tyr Leu Val Gln Pro Phe Met Asp Gln Leu Ala Phe His Gln
450 455 460

Phe Tyr Ile
465

<210> 135
<211> 1964
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)..(1964)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 135
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cacatgagag aaagaatccc aagaggtttt gtttctttg agaaggtatt tctgtccagc 180
tgctccaatg acagagatac ctgcacctt gtcctacttc cagaatgccc agatgtctga 240
ggacagccac tccagcagcg ccatccggag ccagaatgac agccaagaac ggcagcagca 300
gcatgacagg cagagacttg acaaccctga gccaatatct aatgggcggc cccagagtaa 360
ctcaagacag gtggtggaac aagatgagga ggaagacgaa gagctgacat tgaaatatgg 420
agccaagcat gtcatcatgc tctttgtccc cgtgaccctc tgcattggc tcgtcggtgc 480
caccatcaaa tcagtcagct tctatacccg gaaggacggt cagctaattc acacccatt 540

cacagaagac actgagactg taggccaaag agccctgcac tcgatcctga atgcggccat	600
catgatcagt gtcattgtca ttatgaccat cctcctggtg gtcctgtata aatacaggtg	660
ctacaaggta atccacgcct ggcttattat ttcatctctg ttgttgctgt tcttttttc	720
gttcatttac ttaggggaag tatttaagac ctacaatgtc gccgtggact acgttacagt	780
agcactccta atctggaatt ttgggtgttgt cgggatgatt gccatccact ggaaaggccc	840
ccttcgactg cagcaggcgt attcattat gatcagtgcc ctcatggccc tggtatttat	900
caagtacctc cccgaatgga ccgcattggct catcttggct gtgatttcag tatatgattt	960
ggtggtgttt ttatgtccca aaggcccact tcgtatgctg gttgaaacag ctcaggaaag	1020
aaatgagact ctcttccag ctcttatcta ttcctcaaca atgggtgttgt tggtaatat	1080
ggctgaagga gacccagaag cccaaaggag ggtacccaag aaccccaagt ataacacaca	1140
aagagcggag agagagacac aggacagtgg ttctgggaac gatgatggtg gcttcagtga	1200
ggagtgggag gcccaaagag acagtcacct gggcctcat cgctccactc ccgagtcaag	1260
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agtaaaactt ggactgggag atttcatttt ctacagtgtt ctgggtggta aggccctcagc	1380
aaccgccagt ggagactgga acacaaccat agcctgctt gtagccatac tgatccgcct	1440
gtgccttaca ttactcctgc tcgccatttt caagaaagcg ttgccagccc tccccatctc	1500
catcacccctc gggctcggt tctacttcgc cacggattac cttgtgcagc cttcatgga	1560
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ccaaacatcca tcgctgcagc agacgggtgtc cctcagtgac ttgagagaca aggacaagga	1860
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<210> 136
<211> 467
<212> PRT
<213> Mus musculus

<220>
<221> MISC_FEATURE
<222> (1)..(467)
<223> where X is unknown or other

<400> 136

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20 25 30

Gln Glu Arg Gln Gln His Asp Arg Gln Arg Leu Asp Asn Pro Glu
35 40 45

Pro Ile Ser Asn Gly Arg Pro Gln Ser Asn Ser Arg Gln Val Val Glu
50 55 60

Gln Asp Glu Glu Glu Asp Glu Glu Leu Thr Leu Lys Tyr Gly Ala Lys
65 70 75 80

His Val Ile Met Leu Phe Val Pro Val Thr Leu Cys Met Val Val Val
85 90 95

Val Ala Thr Ile Lys Ser Val Ser Phe Tyr Thr Arg Lys Asp Gly Gln
100 105 110

Leu Ile Tyr Thr Pro Phe Thr Glu Asp Thr Glu Thr Val Gly Gln Arg
115 120 125

Ala Leu His Ser Ile Leu Asn Ala Ala Ile Met Ile Ser Val Ile Val
130 135 140

Ile Met Thr Ile Leu Leu Val Val Leu Tyr Lys Tyr Arg Cys Tyr Lys
145 150 155 160

Val Ile His Ala Trp Leu Ile Ile Ser Ser Leu Leu Leu Leu Phe Phe
165 170 175

Phe Ser Phe Ile Tyr Leu Gly Glu Val Phe Lys Thr Tyr Asn Val Xaa
180 185 190

450

455

460

Phe Tyr Ile

465

<210> 137

<211> 2285

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<222> (1)..(2285)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 137

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tgaccctcaa	atacggagcg	aagcatgtga	tcatgctgtt	tgtgcctgtc	actctgtgca	660
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tcatctacac	gccattcact	gaggacacac	cctcggtggg	ccagcgcctc	ctcaactccg	780
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tctacaagta	ccgctgctac	aagttcatcc	atggctggtt	gatcatgtct	tcactgatgc	900
tgctgttccct	cttcacctat	atctacatttgc	ggaaagtgtct	caagacctac	aatgtggcca	960

tggactaccc	caccctcttg	ctgactgtct	ggaacttcgg	ggcagtgggc	atggtgtgca	1020
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aaactgccc	ggagagaaat	gagccat	tccctgcct	gatatactca	tctgccatgg	1260
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gtggggagaa	gagcatccgg	catgagg	gagatgccc	aagagtgtgc	tcgggagtgg	2040
cccctggcac	ctgggtgctc	tggctggaga	ggaaaagcca	gtccctacg	aggagtgttc	2100
ccaatgctt	gtccatgatg	tcctgttat	tttatnccy	ttanaaaactg	antcctnttn	2160
ttnttdcg	gtcacmctn	ctgggragtg	gcttaatagt	aanatcaata	aanagntgag	2220
tcctnttaga	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2280
aaaaaa						2285

<210> 138
 <211> 448

<212> PRT

<213> Homo sapiens

<400> 138

Met Leu Thr Phe Met Ala Ser Asp Ser Glu Glu Glu Val Cys Asp Glu
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Arg Thr Ser Leu Met Ser Ala Glu Ser Pro Thr Pro Arg Ser Cys Gln
20 25 30

Glu Gly Arg Gln Gly Pro Glu Asp Gly Glu Asn Thr Ala Gln Trp Arg
35 40 45

Ser Gln Glu Asn Glu Glu Asp Gly Glu Glu Asp Pro Asp Arg Tyr Val
50 55 60

Cys Ser Gly Val Pro Gly Arg Pro Pro Gly Leu Glu Glu Glu Leu Thr
65 70 75 80

Leu Lys Tyr Gly Ala Lys His Val Ile Met Leu Phe Val Pro Val Thr
85 90 95

Leu Cys Met Ile Val Val Val Ala Thr Ile Lys Ser Val Arg Phe Tyr
100 105 110

Thr Glu Lys Asn Gly Gln Leu Ile Tyr Thr Pro Phe Thr Glu Asp Thr
115 120 125

Pro Ser Val Gly Gln Arg Leu Leu Asn Ser Val Leu Asn Thr Leu Ile
130 135 140

Met Ile Ser Val Ile Val Val Met Thr Ile Phe Leu Val Val Leu Tyr
145 150 155 160

Lys Tyr Arg Cys Tyr Lys Phe Ile His Gly Trp Leu Ile Met Ser Ser
165 170 175

Leu Met Leu Leu Phe Leu Phe Thr Tyr Ile Tyr Leu Gly Glu Val Leu
180 185 190

Lys Thr Tyr Asn Val Ala Met Asp Tyr Pro Thr Leu Leu Thr Val
195 200 205

Trp Asn Phe Gly Ala Val Gly Met Val Cys Ile His Trp Lys Gly Pro
210 215 220

Leu Val Leu Gln Gln Ala Tyr Leu Ile Met Ile Ser Ala Leu Met Ala
225 230 235 240

Leu Val Phe Ile Lys Tyr Leu Pro Glu Trp Ser Ala Trp Val Ile Leu
 245 250 255
 Gly Ala Ile Ser Val Tyr Asp Leu Val Ala Val Leu Cys Pro Lys Gly
 260 265 270
 Pro Leu Arg Met Leu Val Glu Thr Ala Gln Glu Arg Asn Glu Pro Ile
 275 280 285
 Phe Pro Ala Leu Ile Tyr Ser Ser Ala Met Val Trp Thr Val Gly Met
 290 295 300
 Ala Lys Leu Asp Pro Ser Ser Gln Gly Ala Leu Gln Leu Pro Tyr Asp
 305 310 315 320
 Pro Glu Met Glu Glu Asp Ser Tyr Asp Ser Phe Gly Glu Pro Ser Tyr
 325 330 335
 Pro Glu Val Phe Glu Pro Pro Leu Thr Gly Tyr Pro Gly Glu Glu Leu
 340 345 350
 Glu Glu Glu Glu Arg Gly Val Lys Leu Gly Leu Gly Asp Phe Ile
 355 360 365
 Phe Tyr Ser Val Leu Val Gly Lys Ala Ala Ala Thr Gly Ser Gly Asp
 370 375 380
 Trp Asn Thr Thr Leu Ala Cys Phe Val Ala Ile Leu Ile Gly Leu Cys
 385 390 395 400
 Leu Thr Leu Leu Leu Ala Val Phe Lys Lys Ala Leu Pro Ala Leu
 405 410 415
 Pro Ile Ser Ile Thr Phe Gly Leu Ile Phe Tyr Phe Ser Thr Asp Asn
 420 425 430
 Leu Val Arg Pro Phe Met Asp Thr Leu Ala Ser His Gln Leu Tyr Ile
 435 440 445
 <210> 139
 <211> 31
 <212> DNA
 <213> Artificial Sequence
 <400> 139
 ggtaccggcca ccatgacaga ggtacctgca c

<210> 140	
<211> 25	
<212> DNA	
<213> Artificial Sequence	
<400> 140	
gaattcactg gctgtagaaa aagac	25
<210> 141	
<211> 24	
<212> DNA	
<213> Artificial Sequence	
<400> 141	
ggatccggtc cacttcgtat gctg	24
<210> 142	
<211> 33	
<212> DNA	
<213> Artificial Sequence	
<400> 142	
ttttttgaat tcttaggcta tggttgtgtt cca	33
<210> 143	
<211> 19	
<212> DNA	
<213> Artificial Sequence	
<400> 143	
gatttagtggt tgttttgtg	19
<210> 144	
<211> 19	
<212> DNA	
<213> Artificial Sequence	
<400> 144	
gatttagtggc tgttttgtg	19
<210> 145	
<211> 19	
<212> DNA	
<213> Artificial Sequence	

<400> 145	
tttttccagc tctcattta	19
<210> 146	
<211> 19	
<212> DNA	
<213> Artificial Sequence	
<400> 146	
tttttccagt tctcattta	19
<210> 147	
<211> 19	
<212> DNA	
<213> Artificial sequence	
<400> 147	
tacagtgttc tggttggtta	19
<210> 148	
<211> 19	
<212> DNA	
<213> Artificial Sequence	
<400> 148	
tacagtgttc tggttggtta	19
<210> 149	
<211> 19	
<212> DNA	
<213> Artificial Sequence	
<400> 149	
tacagtgttg tggttggtta	19
<210> 150	
<211> 1092	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> misc_feature	
<222> (1)..(1092)	

<223> where n may be either a or g or c or t/u, unknown or other

<400> 150

gtctagataa gncaacattc	agggtagaa gggactgtt	tatTTTTcc tttagtctct	60
cttaaagagt gagaAAAatt	ttcccagggaa tcccggtgga	ctttgcttca ccactcatag	120
gttcataccca agttacaacc	ccacaacctt agagctttt	ttaggaagag gcttggtggg	180
attaccgtgc ttggcttggc	ttggcagga ttcaccacca	gagtcatgtg ggaggggggtg	240
ggaacccaaa caattcagga	ttctgcctc agaaaataaa	ggagaaaata gctgttggat	300
aaactaccag caggcactgc	tacagccat gcttgtgg	ttaaggcca gctagttaca	360
atgacagcta gttactgttt	ccatgttaatt ttcttaaagg	tattaaattt ttctaaatat	420
tagagctgta acttccactt	tctcttgaag gcacagwaag	ggagtcacaa gacactgttgc	480
cagagaatga tcatggcggg	ttcagtgagg aatgggaasc	ccagrgggac antcatctag	540
ggcctcatcg ctctacacct	gagtcacgag ctkctntcca	ggractttcc ancagtatcc	600
tgcgtggtga agacccagag	gaaagnatgt tcanttctcc	atntttcaaa gtcatggatt	660
ccttaggta gctacattat	caaccccc gagaataaaa	tgaattgaga gtgttacagt	720
ctaattctat atcacatgta	acttttattt ggatatatca	gtaatagtgc ttttynntt	780
ttttttttt tttttttttt	tttnggnga nagagtctcg	ctctgtcgcc aggttggagt	840
gcaatggtgc gatcttggct	cactgaaagc tccaccnccc	gggtcaagt gattctcctg	900
cctcagccnc ccaagttagnt	gggactacag gggcgccca	ccacgcctgg gataattttg	960
gnnttttag tagagatggc	gttccaccan ctggngcag	gctggtcttg gaactcctga	1020
natcatgatc tgcctgcctt	agcctccccca aagtgctggg	atncagggg tgagccactg	1080
ttcctgggcc tc			1092

<210> 151

<211> 1003

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)..(1003)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 151

ctgcagttag ccgagatcat gctgctgtac tccagcctgg gccacagagc caaactccat 60
ctccccaaaa aaaaaaaatat taattaatat gatnaaatga tgcctatctc agaattcttgc 120
taaggatttc ttagkacaag tgctgggtat aaactatana ttcratagat gnccgattatt 180
acttaytatt gttattgata aataacagca gcatctacag ttaagactcc agagtcagtc 240
acatagaatc tgnactcct attgtagnaa acccnmmag aaagaaaaaca cagctgaagc 300
ctaattttgt atatcattta ctgacttctc tcattcatttgg tagggcagtg 360
atatttttga attgtgaaat catancaaag agtgcaccaac ttttaatat ttgttaacctt 420
tccttttag ggggagtaaa acttggatttggagatttca ttttctacag ttttctgg 480
ggtaaaggct cagcaacagc cagtgagac tggaacacaa ccatagcctg tttcgtagcc 540
atattaatttgc tmmstataaca ctaataagaa tgtgtcagag ctcttaatgt cmmaactttg 600
attacacagt cccttaagg cagttctgtt ttaacccag gtgggttaaa tattccagct 660
atctgaggag cttingata attggacctc accttagtag ttctctaccc tggccacaca 720
ttagaatcac ttggagctt ttaaaactgt aagctctgcc ctgagatatt cttaactcaat 780
ttaattgtgt agtttttaaa attccccagg aaattctggt atttctgttt aggaaccgct 840
gcctcaagcc tagcagcaca gatatgtagg aaattagctc tgtaaggttg gtcttacagg 900
gataaacaga tccttcctta gtccctggac ttaatcactg agagttggg tggtggttt 960
ggatttaatg acacaacctg tagcatgcag tgttacttaa gac 1003

<210> 152
<211> 1726
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(1726)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 152

gatccctcc	ccttttaga	ccatacaagg	taacttccgg	acgttgccat	ggcatctgta	60
aactgtcatg	gtgttggcgg	ggagtgtctt	ttagcatgct	aatgtattat	aattagcgta	120
tagtgagcag	tgaggataac	cagaggtcac	tctcctcacc	atcttggtt	tggtggttt	180
tggccagctt	ctttattgca	accagttta	ttagcaagat	ctttatgagc	tgtatcttgt	240
gctgacttcc	tatctcatcc	cgnaactaag	agtacctaac	ctcctgaaa	ttgmagncca	300
gnaggtcttg	gncttatttn	accagcccc	tattcaarat	agagtnytc	ttggncaaa	360
cgcyyctgac	acaaggattt	taaagtctta	ttaattaagg	taagatagkt	ccttgsatat	420
gtggtctgaa	atcacagaaa	gctgaatttg	aaaaaggtg	cttggasctg	cagccagtaa	480
acaagtttc	atgcaggtgt	cagtatttaa	ggtacatctc	aaaggataag	tacaattgtg	540
tatgttggga	tgaacagaga	gaatggagca	anccaagacc	caggtaaaag	agaggacctg	600
aatgccttca	gtgaacaatg	atagataatc	tagacttttta	aactgcatac	ttcctgtaca	660
ttgttttttc	ttgcttcagg	tttttagaac	tcatagtgac	gggtctgttg	ttaatcccag	720
gtctaaccgt	taccttgatt	ctgctgagaa	tctgatttac	tgaaaatgtt	tttcttgtgc	780
ttatagaatg	acaatagaga	acggcaggag	cacaacgaca	gacggagcct	tggccaccct	840
ganccattat	ctaatggacg	accagggtta	actccggca	ggtgggtgan	caagatgagg	900
aagaagatga	gganctgaca	ttgaaatatg	ncgscaagca	tgtgatcatg	ctcttgkcc	960
ctgtgactct	ctgcatggtg	gtggtcgtgg	ntaccattaa	gtcagtcagc	ttttatacc	1020
ggaaggatgg	gcagctgtac	gtatgagttt	kgttttatta	ttctcaaasc	cagtgtggct	1080
tttctttaca	gcatgtcatc	atcaccttga	aggcctctnc	attgaagggg	catgacttag	1140
ctggagagcc	catcctctgt	gatggtcagg	agcagttgag	agancgaggg	gttattactt	1200
catgtttaa	gtggagaaaa	ggaacactgc	agaagtatgt	ttcctgtatg	gtattactgg	1260
atagggctga	agttatgctg	aattgaacac	ataaattctt	ttccacactca	gggnattgg	1320
gcgcatttgc	ntcttctgcc	tagaatattc	tttccttnc	tnacttkggn	ggattaaatt	1380

cctgtcatcc ccctcctt ggtgttatataaaatntt ggtgccgcaa aagaagtagc 1440
actcgaatat aaaatttcc ttttaattct cagcaaggna agttacttct atatagaagg 1500
gtgcaccncnt acagatggaa caatggcaag cgcacatttggacaaggaa gggaaagg 1560
ttcttatccc tgacacacgt ggtcccnngct gntgtgtnc nccccactg antagggtta 1620
gactggacag gcttaaacta attccaatttggntaattaa agagaatnat ggggtgaatg 1680
ctttgggagg agtcaaggaa gagnaggttag naggttaactt gaatga 1726

<210> 153
<211> 1883
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(1883)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 153
cncgtataaaa agaccaacat tgccancnac aaccacaggc aagatcttct cctaccttcc 60
cccnnggtgt aataccaagt attcnccaat ttgtgataaaa ctttcattgg aaagtgcacca
ccctccttgg ttaatacatt gtctgtgcct gcttcacac tacagtagca cagttgagtg 180
tttgccttgg agaccatatg acccatagag cttaaaatat tcagtctggc tttttacaga 240
gatgtttctg actttgttaa tagaaaatca acccaactgg tttaaataat gcacataactt
tctctctcat agagtagtgc agaggtagnca gtcacagatt agtgcgttgc 360
atccaaggac tcaatctcct tctttcttct ttagcttcta acctctagct tacttcaggg
tccaggctgg agccctascc ttcatttctg acagtaggaa ggagtagggg agaaaagaac 480
ataggacatg tcagcagaat tctctcctta gaagttccat acacaacaca tctccctaga
agtcattgcc cttacttgtt ctcatagcca tcctaaatat aagggagtcga gaagtaaagt 540
ctkkntggct gggaaatattg gcacctggaa taaaaatgtt tttctgtgaa tgagaaacaa
gggaaagatg gatatgtgac attatcttaa gacaactcca gttgcaattt ctctgcagat 660
720

gagaggcact aattataagc catattacct ttcttctgac aaccacttgt cagccncgt	780
ggtttctgtg gcagaatctg gttcyatamc aagttcctaa taanctgtas ccnaaaaaat	840
ttgatgaggt attataatta tttcaatata aagcacccac tagatggagc cagtgtctgc	900
ttcacatgtt aagtccctct ttccatatgt tagacattt cttgaagca attttagagt	960
gtagctgttt ttctcaggtt aaaaattctt agctaggatt ggtgagttgg ggaaaagtga	1020
cttataagat ncgaattgaa ttaagaaaaa gaaaattctg tgttggaggt ggtaatgtgg	1080
ktggtgatct ycattaacac tgancttaggg cttkgkgtt tgktttattg tagaatctat	1140
accccatca nagaagatac cgagactgtg ggccagagag ccctgcactc aattctgaat	1200
gctgccatca tgatcagngt cattgtwgtc atgactannc tcctggtggt tcwgtataaaa	1260
tacaggtgct ataaggtgag catgagacac agatcttgn tttccaccct gttcttctta	1320
tggttggta ttcttgcac agtaacttaa ctgatctagg aaagaaaaaa tgtttgcct	1380
tctagagata agttaatttt tagtttctt cctcctcact gtggAACATT caaaaaatac	1440
aaaaaggaag ccaggtgcat gtgtatgcc aggctcagag gctgaggcag gaggatcgct	1500
tgggcccagg agttcacaag cagcttggc aacgtaccaa gaccctgcct ctattaaaga	1560
aaacaaaaaa caaatattgg aagtattta tatgcatgga atctatatgt catgaaaaaa	1620
ttagtgtaaa atatatatat tatgattagn tatcaagatt tagtgataat ttatgttatt	1680
ttgggatttc aatgccttt taggccattg tctcaamaaa taaaagcaga aaacaaaaaa	1740
agttgtact gaaaaataaa cattccata taatagcaca atctaagtgg gttttgntt	1800
gtttgttgn ttgttgaagc agggccttgc cctnycaccc aggnntggagt gaagtgcagt	1860
ggcacgattt tggctcaactg cag	1883

<210> 154
 <211> 1990
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)..(1990)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 154

atgtttgaca	atttctccgt	tccacccttg	attaaataag	gtagtattca	tttttaagt	60
ttagcttt	ggatatatgt	gtaagtgtgg	tatgctgtct	aatgaattaa	gacaattggt	120
nctktcttta	cccmacanct	ggacmaagag	caggcaagat	ncaanaatca	agtgacccag	180
ncaaaccaga	cacattttct	gctctcagct	agcttgcac	ctagaaagac	tggttgtcna	240
agttggagtc	caagaatcgc	ggaggatgtt	taaaatgcag	tttctcaggt	tctcnccacc	300
caccagaagt	tttgattcat	ttagtggtgg	gagagggcag	agatatttgc	gatttaaca	360
gcattctctt	gattgtgatg	cagctggttc	scaaataaggt	accctaaaga	aatgacaggt	420
gttaaattta	ggatggccat	cgcttgtatg	ccgggagaag	cacacgctgg	gcccaattta	480
tatagggct	ttcgtcctca	gctcgagcar	cctcagaacc	ccgacaacccy	acgccagckc	540
tctggcgga	ttccrtcagk	tgggaagsc	caggtggagc	tctggkttct	ccccgcaatc	600
gtttctccag	gccggaggcc	ccgccccctt	cctcctggct	cctccctcc	tccgtgggcc	660
gnccgccaac	gacgccagag	ccggaaatga	cgacaacgg	gagggttctc	ggcgggggcc	720
tgggacaggc	agctccgggg	tccncgnwt	nacatcgaa	acaaaacagc	ggctggctcg	780
gaaggaacct	gakctacgac	ccgcggcggc	agcggggcgg	cgggaaagcg	tatgtgcgtg	840
atggggagtc	cgggcaagcc	aggaaggcac	cgccgacatg	ggcggccg	ggcagggncc	900
gnnccttgt	ggccgcccgg	gccgcgaagc	cggtgtccta	aaagatgagg	ggcgccccgc	960
ggccggttgg	ggctgggaa	ccccgtgtgg	gaaaccagga	ggggcgccc	gtttctcggg	1020
cttcggcg	ggccgggtgg	agagagattc	cggggagcct	tggccggaa	atgctgttg	1080
ctcgaagacg	tctcagggcg	caggtgcctt	gggccggat	tagtagccgt	ctgaactgga	1140
gtggagtagg	agaaagagga	agcgtttgg	gctgggtctg	ctttagcaac	tggtgaaact	1200
ccgcgcctca	cgccccgggt	gtgtccttgt	ccaggggcga	cgagcattct	ggcgaaagtc	1260
cgcacgcctc	ttgttcgagg	cggaagacgg	ggtcttgatg	cttctcctt	ggtcgccact	1320

gtctcgaggg	atgcatgtcc	agtgactctt	gtgttgctg	ctgcttcct	ctcagattct	1380
tctcaccgtt	gtggtcagct	ctgctttagg	catattaatc	catagtggag	gctggatgg	1440
gtgagagaat	tgaggtgact	ttccataat	tcaggtgaga	tgtgattaga	gtycggatcc	1500
tncggtgttg	gcagaggctt	accaagaaac	actaacggga	catgggaacc	aattgaggat	1560
ccagggaaata	aagtgtgaag	ttgacttagga	ggtttcagt	ttaagaacat	ggcagagaca	1620
ttctcagaaa	taaggaagtt	aggaagaaag	acctggtta	gagaggaggg	cgaggaagtg	1680
gtttgaaagt	gtcactttgg	aagtgccagc	aggtgaaaat	gccctgtgaa	caggactgga	1740
gctgaaaaca	ggaatcaatt	ccatagattt	ccagttgatg	ttggagcagt	ggagaagtct	1800
aanctaagga	agggaaagag	gaggccaagc	caaacactta	ggaacacttn	cnacgagggg	1860
gtggaagaag	agcaaggagc	cagctgagga	aatgagtgt	ggttgagaa	ccaccacagc	1920
ncagggtcgc	caganctgag	gaaggggagg	gaagcttatac	gagkamsgwc	racmkcaggt	1980
tggcagggat						1990

<210> 155
 <211> 736
 <212> DNA
 <213> Homo sapiens

<400> 155	gtcttccca	tcttctccac	agagtttg	ctttacatta	ttactccttgc	ccat	tttcaa	60			
	gaaagcattt	tca	gtcttcc	caatctccat	cac	tttgg	cttgc	tttct	actttgc	ccac	120
	agattatctt	gtacagc	ctt	ttatggacca	att	gatc	atcaat	ttt	atatct	tagca	180
	tatttgc	gg	tta	aatccc	tgg	at	tttgc	act	at	tttgc	240
	caaagg	tgat	tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	300
	gtt	c	c	c	c	c	c	c	c	c	360
	gaaaacgatt	ttga	acatac	ttc	atcg	ttcg	atcg	ttcg	atcg	ttcg	420
	gat	tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	480
	agcttgc	gtgg	tcac	gac	gat	tttgc	act	gac	act	gac	540

cttccagaat gcacagatgt ctgaggacaa ccacacctgagc aataactgtac gtagccaggt	900
acagcgtcag tytctnaaac tgcctyygnc agactggatt cacttatcat ctcccctcac	960
ctctgagaaa tgctgaggggg gstaggnagg gctttctcta ctnaccaca tttnataatt	1020
atttttgggt gaccttcagc tgatcgctgg gagggacaca gggctnttt aacacatagg	1080
gtgttggata cagnccctcc ctaattcaca tttcanc	1117

<210> 157
<211> 540
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(540)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 157	
ctgcagctt cctttaaact aggaagactt gttcctatac cccagtaacg atacactgta	60
cactaagcaa atagcagtca aacccaaatg aaatttntac agatgttctg tgtcatttta	120
tnttgttat gttgtctccc ccaccccccac cagttcacct gccatttatt tcataattcat	180
tcaacgtctn nntgtgtaaa aagagacaaa aaacattaaa ctttttcct tcgttaattc	240
ctccctacca cccatttaca agtttagccc atacattta ttagatgtct tttatgtttt	300
tcttttncta gattttagtgg ctgttngtg tccgaaaggt ccacttcgta tgctgggtga	360
aacagctcag gagagaaaatg aaacgctttt tccagctctc atttactcct gtaagtattt	420
ggagaatgat attgaatttag taatcagngt agaatttatac ggaaacttga aganatgtna	480
ctatggcaat ttcanggnac ttgtctcatc ttaaatgana gnatccctgg actcctgnag	540

<210> 158
<211> 509
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)..(509)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 158
ccccgtcnat gcatacttg tgtgtccagt gcttacctgg aatccngtct ttcccaacag 60
caacaatggt gtgggtggtg aatatggcag aaggagaccc ggaagctcaa aggagagtat 120
ccaaaaattc caagtataat gcagaaagta ggtaactyyy ntagatamn atcttgattt 180
tncagggtca ctgttataag ctaacagtat agnaatgttt ttatcgctt tctnkgnca 240
tagactcctn kgagaatctc ttgagaacta tgataatgcc cagtaaatac ncagataagt 300
attnaaggag tncagatact caaanccaa caatacngtc aaagcatcct aggttaagac 360
amcncccatt aaatacagaa taccagcatg gaaagggtca ggctgagggt atgattgggt 420
ttgggtttg ggnngtttt ttataagtca tgattttaaa aagaaaaat aaactctctc 480
caaacatgta aaagtaagaa tctcctaaa 509

<210> 159
<211> 823
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(823)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 159
caggagtgga ctaggtaaat gnaagntgtt taaaagagag atngggncng ggacatagtg 60
gtacacanct gtaatgctca ncactkatgg ggagtactga aggnngnsgg atcacttng 120
ggtcnggaat ntgagancag cctgggcaan atggcgaaac cctgtctcta ctaaaaatag 180
ccanaawnwa gcctagcgtg gtggcgcrcg cgcgtggttc cacctactca ggaggcntaa 240
gcacgagnan tncttgaacc caggaggcag aggntgtggt garctgagat cgtgccactg 300
cactccagtc tggcgacma agtgagaccc tgtctccnnn aagaaaaaaa aaatctgtac 360
tttttaaggg ttgtgggacc tgttaattat attgaaatgc ttctyttcta ggtcatccat 420

gcctggctta ttatatcatc tctattgttg ctgcttttt ttacattcat ttacttgggg	480
taagttgtga aatttggggt ctgtcttca gaattaacta cctnngtgct gtgttagctat	540
catttaaagc catgtacttt gntgatgaat tactctgaag ttttaattgt ntccacatat	600
aggtcatact tggtatataa aagactagnc agtattacta attgagacat tcttctgtng	660
ctcctngctt ataataagta gaactgaaag naacttaaga ctacagttaa ttctaaagcct	720
ttggggaagg attatatagc cttctagtag gaagtcttgc gcnatcagaa tgtttntaaa	780
gaaagggtnt caaggaatng tataaanacc aaaaataatt gat	823

<210> 160
 <211> 945
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(945)
 <223> where n may be either a or g or c or t/u, unknown or other

<400> 160	
gttntccnaa ccaacttagg agnttgacc tgggraagac cnacntgatc tccgggaggn	60
aaagactnca gttgagccgt gattgcaccc actttactcc aagcctggc aaccaaaatg	120
agacactggc tccaaacaca aaaacaaaaaa caaaaaaaaga gtaaattaat ttanagggaa	180
gnattaaata aataatagca cagttgat agtttatggt aaaattataa aggtgggana	240
ttaatatcta atgtttggga gccatcacat tattctaaat aatgtttgg tggaaattat	300
tgtacatctt ttaaaatctg tgtaatttt tttcagggaa gtgttaaaa cctataacgt	360
tgctgtggac tacattactg ttncactcct gatctggat tttgggtgtgg tggaaatgat	420
ttccattcac tggaaaggc cacttcgact ccagcaggca tatctcatta tgattagtgc	480
cctcatgncc ctgktgttta tcaagtacct ccctgaatgg actgngtggc tcatacttggc	540
tgtgatttca gtatatggta aaacccaaga ctgataattt gtttgcaca ggaatgcccc	600
actggaggtgt tttcttcct catctttta tcttgattta gagaaaatgg taacgtgtac	660

atcccataac tcttcagtaa atcattaatt agctatagta acttttcat ttgaagattt	720
cggctggca tggtagctca tgcctgtaat cttagcactt tggaggctg aggccggcag	780
atcacctaag cccagagttc aagaccagcc tggcaacat ggcaaaacct cgtatctaca	840
gaaaatacaa aaattagccg ggcatggtgg tgcacacctg tagttccagc tacttaggag	900
gctgaggtgg gaggatcgat tgatcccagg aggtcaagnc tgcag	945

<210> 161
<211> 4
<212> PRT
<213> Homo sapiens

<400> 161

Tyr Pro Thr Phe
1

<210> 162
<211> 4
<212> PRT
<213> Homo sapiens

<400> 162

Ser Thr Pro Glu
1

<210> 163
<211> 19
<212> DNA
<213> Artificial Sequence

<400> 163
cattcactga ggacacacc

19

<210> 164
<211> 18
<212> DNA
<213> Artificial Sequence

<400> 164
tgtagagcac caccaaga

18

<210> 165
<211> 18
<212> DNA
<213> Artificial Sequence

<400> 165
gcatggtgtg catccact 18

<210> 166
<211> 18
<212> DNA
<213> Artificial Sequence

<400> 166
ggaccactct gggaggt 18

<210> 167
<211> 18
<212> DNA
<213> Artificial Sequence

<400> 167
aaaccttgat tggagat 18

<210> 168
<211> 15
<212> PRT
<213> Homo sapiens

<400> 168

Asn Asp Asn Arg Glu Arg Gln Glu His Asn Asp Arg Arg Ser Leu
1 5 10 15

<210> 169
<211> 15
<212> PRT
<213> Homo sapiens

<400> 169

Lys Asp Gly Gln Leu Ile Tyr Thr Pro Phe Thr Glu Asp Thr Glu
1 5 10 15

<210> 170

<211> 15
<212> PRT
<213> Homo sapiens

<400> 170

Glu Ala Gln Arg Arg Val Ser Lys Asn Ser Lys Tyr Asn Ala Glu
1 5 10 15

<210> 171
<211> 15
<212> PRT
<213> Homo sapiens

<400> 171

Ser His Leu Gly Pro His Arg Ser Thr Pro Glu Ser Arg Ala Ala
1 5 10 15

<210> 172
<211> 19
<212> DNA
<213> Artificial Sequence

<400> 172

cagaggatgg agagaatac

19

<210> 173
<211> 19
<212> DNA
<213> Artificial Sequence

<400> 173

ggctcccaa aactgtcat

19

<210> 174
<211> 20
<212> DNA
<213> Artificial Sequence

<400> 174

gcccttagtgt tcatcaagta

20

<210> 175
<211> 18
<212> DNA

<213> Artificial Sequence

<400> 175
aaagcgggag ccaaagtc 18

<210> 176

<211> 20

<212> DNA

<213> Artificial Sequence

<400> 176
tcacagaaga taccgagact 20

<210> 177

<211> 20

<212> DNA

<213> Artificial Sequence

<400> 177
cccaaccata agaagaacag 20

<210> 178

<211> 22

<212> DNA

<213> Artificial Sequence

<400> 178
tctgtacttt ttaagggttg tg 22

<210> 179

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<222> (1)..(22)

<223> where n may be either a or g or c or t/u, unknown or other

<400> 179
acttcagagt aattcatcan ca 22

<210> 180

<211> 19
<212> DNA
<213> Artificial Sequence

<400> 180
gactccagca ggcatatct 19

<210> 181
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<222> (1)..(20)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 181
gatgagacaa gtnccntgaa 20

<210> 182
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<222> (1)..(20)
<223> where n may be either a or g or c or t/u, unknown or other

<400> 182
ttagtggctg tttntgtgtcc 20

<210> 183
<211> 20
<212> DNA
<213> Artificial Sequence

<400> 183
cacccattta caagtttagc 20